

CHARLES M. LARSON  
& SON  
UTICA, N.Y.

— 1907 —


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**Illustrated Catalogue "H"**  
**1907**

# **CHARLES MILLAR & SON COMPANY**

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## **SUPPLIES**

of every description for

**Plumbers, Water Works,  
Steam and Gas Fitters,  
————— Contractors —————  
Engineers and Mill Owners**

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**STEAM AND HOT WATER RADIATORS AND BOILERS,  
HOT AIR FURNACES**

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### **FACTORIES**

LEAD PIPE WORKS, 75 MAIN STREET  
UTICA PIPE FOUNDRY CO.'S WORKS, GAS  
AND WATER PIPE FOUNDRY, CORNER  
GILBERT ST. AND HUTCHINSON AVE.  
SOIL PIPE AND SCREWED FITTINGS  
FOUNDRY, DWYER AVENUE.

### **OFFICE AND SALESROOMS**

127 AND 129 GENESEE STREET

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### **WAREHOUSES**

73, 75 AND 77 MAIN STREET  
3, 5, 7 AND 9 SECOND STREET

**UTICA, N. Y.**

### **OFFICERS**

EDWARD G. WAGNER, PRES. AND TREAS.  
CHARLES S. SYMONDS, VICE-PRES.  
JOHN A. KERNAN, SECRETARY  
A. H. DOBSON, ASST. TREAS.  
L. H. BIRDSEYE, GEN'L MANAGER

### **DIRECTORS**

EDWARD G. WAGNER,  
CHARLES S. SYMONDS,  
JOHN A. KERNAN,  
A. H. DOBSON,  
L. H. BIRDSEYE.

# To The Trade

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In presenting illustrated catalogue of Plumbers', Gas and Steam Fitters', Water Works, Engineers' and Mill Supplies, we wish to express grateful appreciation of the generous patronage extended to our concern for nearly half a century.

This business was established by Charles Millar in 1861, and in 1866 Henry W. Millar was admitted to partnership under the firm name of Charles Millar & Son. In 1883 John L. Murray became a partner, the firm name being unchanged, and continued until January 1st, 1900, when the present company was incorporated under the laws of the State of New York.

In compiling this edition, we have paid especial attention to the matter of Plumbing Supplies and Sanitary Fixtures, illustrating everything, not only those of the highest grade and quality, suitable for the finest residences, institutions, public building, etc., but, also, those of moderate prices, which are daily becoming more universally used.

We are the exclusive selling agents of the Utica Pipe Foundry Co. They not only manufacture superior quality Cast Iron Gas and Water Pipe and Specials, but have a modern foundry, which is exclusively devoted to the making of Cast Iron Soil Pipe and Fittings and Plumbers' Castings, also Cast Screwed Fittings, thus enabling us to furnish these goods, not only of the very best quality, but at the lowest possible rates.

We continue to make the best Lead Pipe in this country, also reliable Solder, Pure Tin Pipe, Tin Lined Lead Pipe and Lead Tubing.

Remember that we carry in our large warehouses full stocks of all these goods, thereby enabling us to make prompt shipments.

Inviting correspondence and soliciting your orders, we are,

Very respectfully,

**Charles Millar & Son Co.**



This Catalogue Supersedes  
all of earlier date...

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## Special Notice and Trade Customs.

### NOTICE

To avoid errors when ordering, refer to THIS CATALOGUE and specify PAGE and PLATE NUMBERS which designate the articles required.

All lists, discounts and quotations are subject to market changes. We shall endeavor, from time to time, to advise our customers of variations in prices.

TERMS :—Net cash thirty days, unless otherwise agreed upon.

Definite instructions as to route or transportation line and insurance should be given with each order. When no instructions are given, goods will be shipped in the manner we think most suitable, and without insurance.

Boxing and packages will be charged at manufacturers' rates.

For general information, attention is called to the following well established

### TRADE CUSTOMS

BREAKAGE—Our responsibility ceases as soon as goods are delivered in good order and condition at railroad depot, or other transportation companies, and a receipt therefor taken. In case of any carelessness or negligence on the part of the carrier, the consignee (who is the real owner) should file claim to recover damages against the transportation company at once, and sign for the goods as received in a damaged condition. We shall always be pleased to assist our customers in establishing claims.

DAMAGES—We guarantee material sold, but only to extent of supplying perfect goods for any found defective, and will not allow any claims for labor or consequential damages. The measure of damage shall be the price of any defective material, such to be returned or otherwise disposed of at our option before credit is rendered.

Claims for corrections or errors must be made within ten days from receipt of goods.

Orders will be executed promptly and carefully; we cannot be responsible for delays arising from accidents, strikes and other causes unavoidable or beyond our control.

Return no goods without first obtaining our consent and shipping instructions.

Goods returned to us otherwise than by error on our part, are subject to deduction from credit for any damage, or loss while in transit, also freight or express charges and a reasonable amount for handling.

Orders for special goods, not suitable for our general stock, cannot be countermanded, after their manufacture has commenced.

Address all correspondence to firm, rather than individuals, thus securing best possible attention.

**Charles Millar & Son Co.,**  
**Utica, New York.**





*Charles Millar*





Henry W. Millard

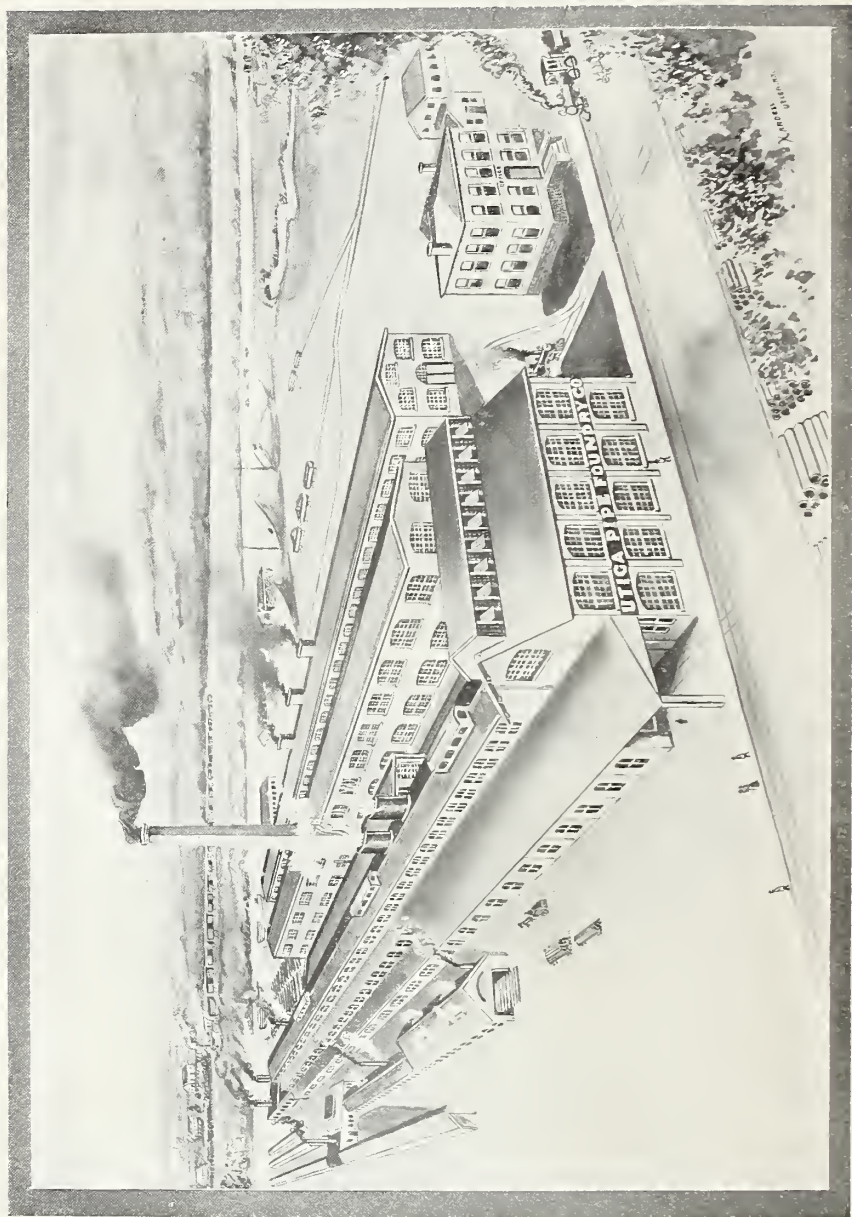


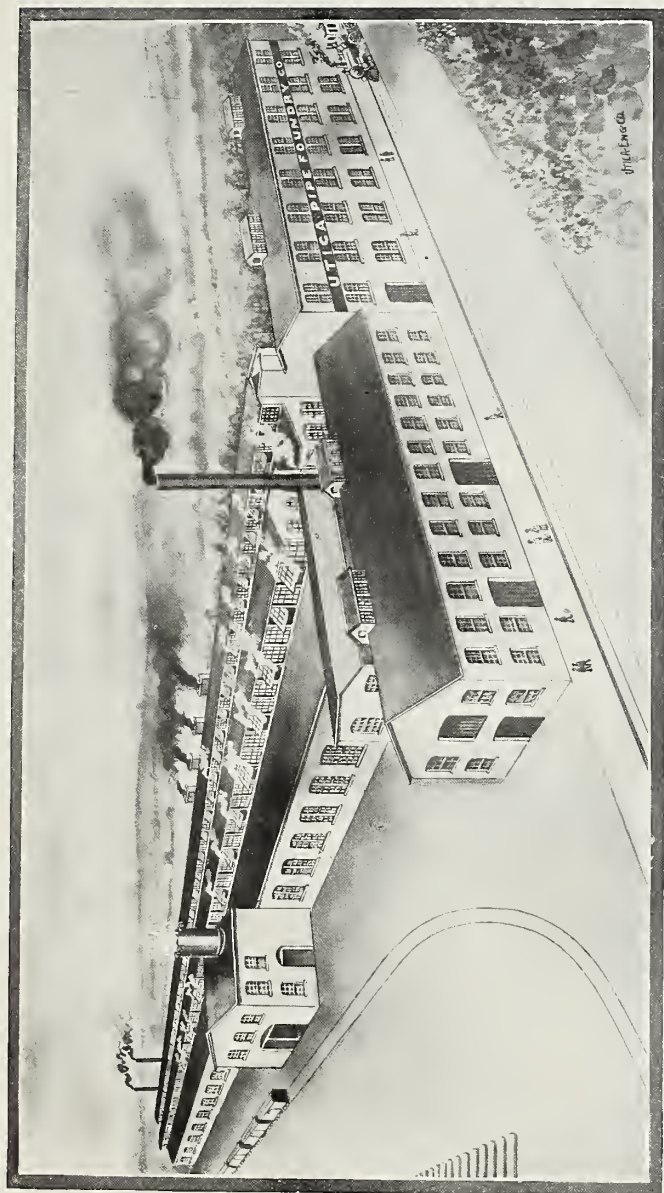
*John L. Murray*











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CAST IRON  
WATER AND GAS PIPE  
AND  
STEAM SECTION

# STANDARD THICKNESS AND WEIGHTS OF CAST IRON WATER PIPE



FIG. H-1

Nominal Inside Diameter, Inches.	Class A 100 Ft. Head 43 Lbs. Pressure			Class B 200 Ft. Head 86 Lbs. Pressure			Class C 300 Ft. Head 130 Lbs. Pressure			Class D 400 Ft. Head 173 Lbs. Pressure			Lead per Joint, Pounds.	Hemp per Joint, Pounds.	Nominal Inside Diameter, Inches.
	Thick- ness, Inches.	Weight per		Thick- ness, Inches.	Weight per		Thick- ness, Inches.	Weight per		Thick- ness, Inches.	Weight per				
		Foot.	Length.		Foot.	Length.		Foot.	Length.		Foot.	Length.			
2	5-16	7	63	2"	Pipe	Lay	9' 0"	----	----	----	----	----	3.25	.14	2
3	13-32	14.5	174	15-32	16.5	198	----	----	----	----	----	----	4.4	.18	3
4	.42	20.0	240	.45	21.7	260	.48	23.3	280	.52	25.0	300	5.5	.21	4
6	.44	30.8	370	.48	33.3	400	.51	35.8	430	.55	38.3	460	8.0	.31	6
8	.46	42.9	515	.51	47.5	570	.56	52.1	625	.60	55.8	670	11.5	.44	8
10	.50	57.1	685	.57	63.8	765	.62	70.8	850	.68	76.7	920	14.5	.53	10
12	.54	72.5	870	.62	82.1	985	.68	91.7	1100	.75	100.0	1200	18.0	.61	12
14	.57	89.6	1075	.66	102.5	1230	.74	116.7	1400	.82	129.2	1550	21.5	.81	14
16	.60	108.3	1300	.70	125.0	1500	.80	143.8	1725	.89	158.3	1900	24.0	.94	16
18	.64	129.2	1550	.75	150.0	1800	.87	175.0	2100	.96	191.7	2300	27.0	1.00	18
20	.67	150.0	1800	.80	175.0	2100	.92	208.3	2500	1.03	229.2	2750	31.5	1.25	20
24	.76	204.2	2450	.89	233.3	2800	1.04	279.2	3350	1.16	306.7	3680	37.0	1.50	24
30	.88	291.7	3500	1.03	333.3	4000	1.20	400.0	4800	1.37	450.0	5400	51.0	2.06	30
36	.99	391.7	4700	1.15	454.2	5450	1.36	545.8	6550	1.58	625.0	7500	75.0	3.00	36
42	1.10	512.5	6150	1.28	591.7	7100	1.54	716.7	8600	1.78	825.0	9900	90.0	3.62	42
48	1.26	666.7	8000	1.42	750.0	9000	1.71	908.3	10900	1.96	1050.0	12600	110.0	4.37	48
54	1.35	800.0	9600	1.55	933.3	11200	1.90	1141.7	13700	2.23	1341.7	16100	130.0	5.25	54
60	1.39	916.7	11000	1.67	1104.2	13250	2.00	1341.7	16100	2.38	1583.3	19000	150.0	6.25	60
72	1.60	1257.5	15090	1.95	1538.3	18460	2.39	1868.3	22420	2.82	2217.5	26610	220.0	9.00	72

All Pipe cast vertically in dry sand in twelve-foot lengths, exclusive of bell, except 2 inch, which are 9 feet long. Other weights furnished when required. All pipes are tested with hydraulic pressure to 300 pounds per square inch.

Weights on Lead and Hemp are approximate.

# STANDARD THICKNESS AND WEIGHTS OF CAST IRON GAS PIPE



FIG. H-2

Nominal Inside Diameter in Inches	STANDARD			EXTRA HEAVY			Nominal Inside Diameter in Inches
	Thickness Inches	Weight Per		Thickness Inches	Weight Per		
		Foot	Length		Foot	Length	
3							3
4	.40	19.0	228	.42	20.0	240	4
6	.43	30.0	360	.47	32.8	394	6
8	.46	42.0	504	.49	45.3	543	8
10	.49	55.8	670	.51	58.7	703	10
12	.54	72.5	870	.57	76.1	913	12
16	.60	108.3	1300	.65	117.2	1406	16
20	.67	150.0	1800	.75	166.7	2000	20
24	.76	204.2	2450	.82	224.0	2688	24
30	.88	291.7	3500	1.00	323.9	3887	30
36	.99	391.7	4700	1.05	442.7	5312	36
42	1.10	512.5	6150	1.26	581.3	6975	42
48	1.26	666.7	8000	1.38	739.6	8775	48

All Pipe cast vertically in dry sand in twelve-foot lengths, exclusive of bell, except 2 inch, which are 9 feet long. Other weights furnished when required. All pipes are tested with hydraulic pressure to 300 pounds per square inch.

## CAST IRON PIPE SPECIALS

For Water and Gas Mains

TEE



FIG. H-3

TEE



FIG. H-4

FIGS. H-3 AND H-4

Size	Weight, Lbs.	Size	Weight, Lbs.
3 x 3 x 3 inches	72	10 x 10 x 6 inches	384
4 x 4 x 4 "	106	10 x 10 x 4 "	335
4 x 4 x 3 "	95	12 x 12 x 12 "	610
6 x 6 x 6 "	195	12 x 12 x 10 "	530
6 x 6 x 4 "	170	12 x 12 x 8 "	500
6 x 6 x 3 "	160	12 x 12 x 6 "	520
8 x 8 x 8 "	315	12 x 12 x 4 "	500
8 x 8 x 6 "	295	14 x 14 x 14 "	760
8 x 8 x 4 "	250	16 x 16 x 16 "	1025
8 x 8 x 3 "	240	18 x 18 x 18 "	1150
10 x 10 x 10 "	435	20 x 20 x 20 "	1300
10 x 10 x 8 "	390	24 x 24 x 24 "	1925

REDUCER



FIG. H-5

REDUCER



FIG. H-6

Size, inches	3 x 2	4 x 3	6 x 4	8 x 6	10 x 8	12 x 10
Fig. H-5—Weight, lbs.	30	50	85	135	175	335
Fig. H-6—Weight, lbs.	25	42	59	90	120	275

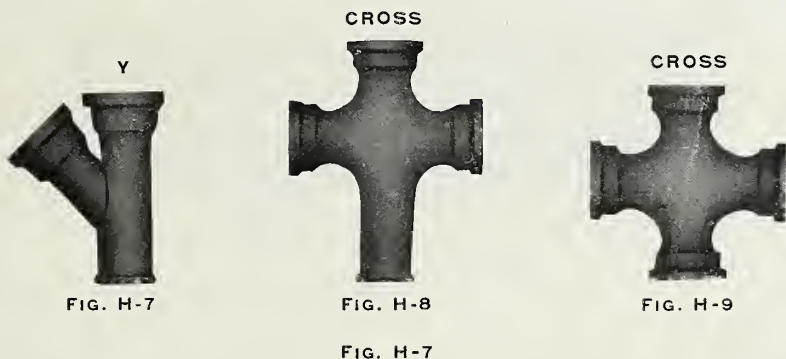
## NOT ILLUSTRATED

Size, inches	3	4	6	8	10	12
Plugs, weight, lbs.	6	9	17	37	45	55
Caps, weight, lbs.	15	25	36	55	80	110
Sleeves, weight, lbs.	37	52	78	105	175	240
Split Sleeves, weight, lbs.	50	64	110	130	190	240



## CAST IRON PIPE SPECIALS

For Water and Gas Mains



Size	Weight, Lbs.	Size	Weight, Lbs.
3 x 3 x 3 inches	73	8 x 8 x 8 inches	300
4 x 4 x 4 "	110	10 x 10 x 10 "	425
6 x 6 x 6 "	205	12 x 12 x 12 "	645

FIGS. H-8 AND H-9

Size	Weight, Lbs.	Size	Weight, Lbs.
3 x 3 x 3 inches	100	8 x 8 x 8 inches	400
4 x 4 x 4 "	140	10 x 10 x 10 "	570
6 x 6 x 6 "	290	12 x 12 x 12 "	780



Size, inches	3	4	6	8	10	12
Fig. H-10—Weight, lbs.	60	90	152	235	285	390
Fig. H-11—Weight, lbs.	42	60	102	145	190	355
Fig. H-12—Weight, lbs.	37	50	85	135	175	280

## CAST IRON FLANGED PIPE

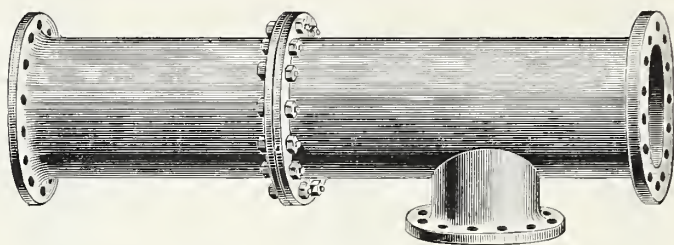


FIG. H-13

## CAST IRON FLANGED FITTINGS

ELBOW



FIG. H-14

TEE

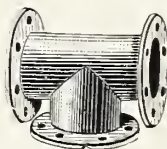


FIG. H-15

CROSS

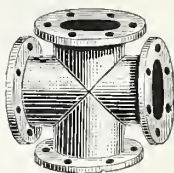


FIG. H-16

REDUCER

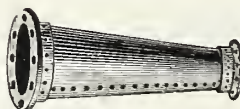


FIG. H-17

Prices on Cast Iron Flanged Pipe and Fittings on application.

# STANDARD WROUGHT STEAM, GAS AND WATER PIPE



FIG. H-18

List adopted February 15, 1900

## BLACK AND GALVANIZED

Nominal Inside Diameter.	Price Per Foot.	Thickness.	Nominal Weight Per Foot.	Number of Threads per Inch of Screw.
$\frac{1}{8}$	.05 $\frac{1}{2}$	.068	0.24	27
$\frac{1}{4}$	.05 $\frac{1}{2}$	.088	0.42	18
$\frac{3}{8}$	.05 $\frac{1}{2}$	.091	0.56	18
$\frac{1}{2}$	.08 $\frac{1}{2}$	.109	0.84	14
$\frac{3}{4}$	.11 $\frac{1}{2}$	.113	1.12	14
1	.16 $\frac{1}{2}$	.134	1.67	11 $\frac{1}{2}$
1 $\frac{1}{4}$	.22 $\frac{1}{2}$	.140	2.24	11 $\frac{1}{2}$
1 $\frac{1}{2}$	.27	.145	2.68	11 $\frac{1}{2}$
2	.36	.154	3.61	11 $\frac{1}{2}$
2 $\frac{1}{2}$	.57 $\frac{1}{2}$	.204	5.74	8
3	.75 $\frac{1}{2}$	.217	7.54	8
3 $\frac{1}{2}$	.95	.226	9.00	8
4	1.08	.237	10.66	8
4 $\frac{1}{2}$	1.30	.246	12.49	8
5	1.45	.259	14.50	8
6	1.88	.280	18.76	8
7	2.35	.301	23.27	8
8	2.82	.322	28.18	8
9	3.40	.344	33.70	8
10	4.25	.366	40.00	8
11	4.75	.375	45.00	8
12	5.20	.375	49.00	8

Unless otherwise ordered, black pipe, random lengths, with threads and couplings, will be shipped.

For cut lengths an extra charge will be made above random lengths.

For pipe smoothed on the inside, known as plugged and reamed, an extra charge will be made above regular pipe.

For asphalted pipe an extra charge will be made above black.

## LARGE OUTSIDE DIAMETER WROUGHT PIPE

## Plain Ends

Revised and Adopted May 1, 1902

Size Outside Diameter	$\frac{1}{4}$ inch Thick	$\frac{5}{16}$ inch Thick	$\frac{3}{8}$ inch Thick	$\frac{7}{16}$ inch Thick	$\frac{1}{2}$ inch Thick
14.....	3.85	4.80	5.75	6.65	7.60
15.....	4.15	5.15	6.15	7.15	8.15
16.....	4.40	5.50	6.60	7.65	8.70
17.....	4.70	5.85	7.00	8.15	9.25
18.....	4.95	6.20	7.40	8.60	9.80
20.....	5.50	6.90	8.25	9.60	10.95
21.....		7.25	8.65	10.10	11.50
22.....		7.60	9.10	10.60	12.10
24.....			9.95	11.60	13.15
26.....			11.30	13.15	14.95
28.....			12.15	14.15	16.15
30.....				15.20	17.65

This pipe will be shipped in random lengths, plain ends, unless otherwise ordered.

For cut lengths an extra charge above random will be made.

For threaded pipe an extra charge above plain end will be made.

## LINE PIPE

## For Oil, Gas and High Pressure Mains

Nominal Inside Diameter, Inches	Actual Outside Diameter, Inches	Weight Per Foot, Pounds	No. of Threads Per Inch of Screw	Price Per Foot	Nominal Inside Diameter, Inches	Actual Outside Diameter, Inches	Weight Per Foot, Pounds	No. of Threads Per Inch of Screw	Price Per Foot
2	2.37	3.61	11½	Prices quoted on application.	6	6.62	18.76	8	Prices quoted on application.
2½	2.87	5.74	8		7	7.62	23.27	8	
3	3.50	7.54	8		8	8.62	28.18	8	
3½	4.00	9.00	8		9	9.68	33.70	8	
4	4.50	10.66	8		10	10.75	40.06	8	
4½	5.00	12.34	8		12	12.75	49.00	8	
5	5.56	14.50	8						

Line Pipe of special weight, etc., made to order, and prices and information furnished on application.

## EXTRA STRONG WROUGHT PIPE

Size, Inches.	Price Per Foot.	Actual Outside Diameter.	Nominal Inside Diameter.	Thickness.	Nominal Weight Per Foot.
$\frac{1}{8}$	.11	.405	.205	.100	.29
$\frac{1}{4}$	.11	.540	.294	.123	.54
$\frac{3}{8}$	.11	.675	.421	.127	.74
$\frac{1}{2}$	.12	.840	.542	.149	1.09
$\frac{3}{4}$	.15	1.05	.736	.157	1.39
1	.22	1.315	.951	.182	2.17
$1\frac{1}{4}$	.30	1.66	1.272	.194	3.00
$1\frac{1}{2}$	.36	1.90	1.494	.203	3.63
2	.50	2.375	1.933	.221	5.02
$2\frac{1}{2}$	.81	2.875	2.315	.280	7.67
3	1.05	3.500	2.892	.304	10.25
$3\frac{1}{2}$	1.33	4.000	3.358	.321	12.47
4	1.50	4.500	3.818	.341	14.97
$4\frac{1}{2}$	1.95	5.000	4.280	.360	18.22
5	2.16	5.563	4.813	.375	20.54
6	2.90	6.625	5.750	.437	28.58
7	3.80	7.625	6.625	.500	37.67
8	4.30	8.625	7.625	.500	43.00

## DOUBLE EXTRA STRONG WROUGHT PIPE

Size, Inches.	Price Per Foot.	Actual Outside Diameter.	Nominal Inside Diameter.	Thickness.	Nominal Weight Per Foot.
$\frac{1}{2}$	.25	.84	.244	.298	1.70
$\frac{3}{4}$	.30	1.05	.422	.314	2.44
1	.37	1.315	.587	.364	3.65
$1\frac{1}{4}$	.52	1.66	.885	.388	5.20
$1\frac{1}{2}$	.65	1.90	1.088	.406	6.40
2	.95	2.375	1.491	.442	9.02
$2\frac{1}{2}$	1.37	2.875	1.755	.560	13.68
3	1.92	3.50	2.284	.608	18.56
$3\frac{1}{2}$	2.45	4.00	2.716	.642	22.75
4	2.85	4.50	3.136	.682	27.48
$4\frac{1}{2}$	3.30	5.00	3.564	.718	32.53
5	3.80	5.563	4.063	.75	38.12
6	5.30	6.625	4.875	.875	53.11
7	6.25	7.625	5.875	.875	62.38
8	7.20	8.625	6.875	.875	71.62

*Extra Strong* and *Double Extra Strong* will be shipped in random lengths and plain ends unless otherwise ordered.

For pipe fitted with threads and couplings an extra charge will be made above regular.

For cut lengths an extra charge will be made above random.

For galvanized or asphalted an extra charge will be made above black.

## EXTRA HEAVY OR HYDRAULIC TUBES

away from Standard,  
Special prices given on application.



## STANDARD BOILER TUBES

## Lap-Welded



FIG. H-19

OF STANDARD GAUGE, NOT OVER 20 FEET LONG  
SUBJECT TO CHANGE WITHOUT NOTICE

Actual Diameter Outside Inches	Price Per Foot	Thickness Inches	Thickness Nearest Bgm. W. G. Gauge	Nominal Weight Per Foot Pounds
1	.30	.095	13	.90
1 $\frac{1}{4}$	.28	.095	13	1.15
1 $\frac{1}{2}$	.27	.095	13	1.40
1 $\frac{3}{4}$	.22	.095	13	1.66
2	.20	.095	13	1.91
2 $\frac{1}{4}$	.24	.095	13	2.16
2 $\frac{1}{2}$	.28	.109	12	2.75
2 $\frac{3}{4}$	.34	.109	12	3.04
3	.35	.109	12	3.33
3 $\frac{1}{4}$	.40	.120	11	3.96
3 $\frac{1}{2}$	.44	.120	11	4.28
3 $\frac{3}{4}$	.50	.120	11	4.60
4	.55	.134	10	5.47
4 $\frac{1}{2}$	.62	.134	10	6.17
5	.75	.148	9	7.58
6	1.00	.165	8	10.16
7	1.20	.165	8	11.90
8	1.50	.165	8	13.65
9	1.70	.180	7	16.76
10	2.10	.203	6	21.00
11	2.50	.220	5	25.00
12	2.90	.229	4 $\frac{1}{2}$	28.50
13	3.20	.238	4	32.06
14	3.65	.248	3 $\frac{1}{2}$	36.00
15	4.10	.259	3	40.60
16	4.60	.270	2 $\frac{1}{2}$	45.20

## EXTRA WIRE GAUGE BOILER TUBES

For extra wire gauge boiler tubes, away from standard not exceeding four wire gauges, one cent for each inch in diameter of tube for each additional gauge will be charged and added to net of invoice.

Tubes more than four wire gauges heavier than standard will be charged by the pound the same as plain end stay tubes, arch pipes, dry pipes and water grates.

## LAP-WELDED CASING

SCREW AND SOCKET



FIG. H-20

INSERTED JOINT



FIG. H-21

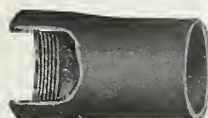


FIG. H-22

List Adopted February 15, 1900.

Nominal Inside Diameter, Inches.	Actual Outside Diameter, Inches.	Per Foot.	Nominal Weight per Foot, lbs.	Number of Threads per Inch.
2	2 $\frac{1}{4}$	.23	2.22	14
2 $\frac{1}{4}$	2 $\frac{1}{2}$	.29	2.82	14
2 $\frac{1}{2}$	2 $\frac{3}{4}$	.32	3.13	14
2 $\frac{3}{4}$	3	.35	3.45	14
3	3 $\frac{1}{4}$	.41	4.10	14
3 $\frac{1}{4}$	3 $\frac{1}{2}$	.45	4.45	14
3 $\frac{1}{2}$	3 $\frac{3}{4}$	.48	4.78	14
3 $\frac{3}{4}$	4	.56	5.56	14
4	4 $\frac{1}{4}$	.60	6.00	14
4 $\frac{1}{4}$	4 $\frac{1}{2}$	.64	6.36	14
4 $\frac{1}{2}$	4 $\frac{3}{4}$	1.00	9.38	14
4 $\frac{3}{4}$	5	.68	6.73	14
5	5 $\frac{1}{4}$	1.00	9.39	14
5 $\frac{1}{4}$	5 $\frac{1}{2}$	.78	7.80	14
5 $\frac{1}{2}$	5 $\frac{3}{4}$	.82	8.20	14
5 $\frac{3}{4}$	6	1.00	9.86	14
6	6 $\frac{1}{4}$	1.30	12.80	11 $\frac{1}{2}$
6 $\frac{1}{4}$	6 $\frac{1}{2}$	1.50	15.88	11 $\frac{1}{2}$
6 $\frac{1}{2}$	6 $\frac{3}{4}$	.87	8.62	14
6 $\frac{3}{4}$	7	1.30	12.49	11 $\frac{1}{2}$
7	7 $\frac{1}{4}$	1.05	10.46	14
7 $\frac{1}{4}$	7 $\frac{1}{2}$	1.20	12.04	11 $\frac{1}{2}$
7 $\frac{1}{2}$	7 $\frac{3}{4}$	1.40	14.20	11 $\frac{1}{2}$
7 $\frac{3}{4}$	8	1.60	16.70	11 $\frac{1}{2}$
8	8 $\frac{1}{4}$	1.16	11.58	14
8 $\frac{1}{4}$	8 $\frac{1}{2}$	1.35	13.32	14 and 11 $\frac{1}{2}$
8 $\frac{1}{2}$	8 $\frac{3}{4}$	1.70	17.02	11 $\frac{1}{2}$
8 $\frac{3}{4}$	9	1.24	12.34	14
9	9 $\frac{1}{4}$	1.75	17.51	11 $\frac{1}{2}$ and 10
9 $\frac{1}{4}$	9 $\frac{1}{2}$	1.36	13.55	14
9 $\frac{1}{2}$	9 $\frac{3}{4}$	1.55	15.41	11 $\frac{1}{2}$
9 $\frac{3}{4}$	10	2.10	20.17	11 $\frac{1}{2}$
10	10 $\frac{1}{4}$	1.61	16.07	11 $\frac{1}{2}$
10 $\frac{1}{4}$	10 $\frac{1}{2}$	2.00	20.10	11 $\frac{1}{2}$
10 $\frac{1}{2}$	10 $\frac{3}{4}$	2.40	24.38	11 $\frac{1}{2}$ and 8
10 $\frac{3}{4}$	11	1.76	17.60	11 $\frac{1}{2}$
11	11 $\frac{1}{4}$	2.20	21.90	11 $\frac{1}{2}$
11 $\frac{1}{4}$	11 $\frac{1}{2}$	2.68	26.72	11 $\frac{1}{2}$
11 $\frac{1}{2}$	11 $\frac{3}{4}$	3.05	30.35	11 $\frac{1}{2}$
11 $\frac{3}{4}$	12	3.38	33.78	11 $\frac{1}{2}$

Random lengths with Threads and Couplings will be shipped unless otherwise ordered.

For cut lengths an extra charge will be made above random.

For Galvanized or Asphalted an extra charge will be made above black.

In ordering Casing be careful to state what diameter is wanted outside or inside, and specify if Screw and Socket or Inserted Joints are required.

## CASING FITTINGS

## Cast Iron

Size, inches	2, 2 $\frac{1}{4}$ , 2 $\frac{1}{2}$ 2 $\frac{3}{4}$ , 3	3 $\frac{1}{4}$	3 $\frac{1}{2}$	3 $\frac{3}{4}$	4	4 $\frac{1}{4}$	4 $\frac{1}{2}$
Elbows, each	1.10	1.35	1.80	1.80	2.50	2.50	3.00
Elbows, Reducing, each	1.40	1.75	2.25	2.25	3.00	3.00	3.75
Elbows, 45°, each	1.60	2.00	2.70	2.70	3.75	3.75	4.00
Tees, each	1.50	2.00	2.50	2.50	3.50	3.50	4.00
Tees, Reducing, each	1.85	2.50	3.00	3.00	4.35	4.35	5.00
Crosses, each	2.20	2.70	3.50	3.50	5.00	5.00	5.70
Crosses, Reducing, each	2.75	3.30	4.35	4.35	6.25	6.25	7.00
Plugs, each	.50	.75	.85	.85	1.35	1.35	1.75
Bushings, each	.60	.80	1.00	1.00	1.50	1.50	1.85
Flange Unions, each	2.25	2.75	3.15	3.15	4.50	4.50	5.00
Locknuts, each	.50	.70	.95	.95	1.25	1.25	1.35
Return Bends, close, each	3.00	4.00	5.00	5.00	6.00	6.50	---
Return Bends, open, each	3.75	4.50	5.75	5.75	8.00	8.00	---
Reducers, each	1.20	1.50	2.00	2.00	2.75	2.75	3.00
Caps, each	.80	1.10	1.30	1.30	1.60	1.60	2.00
Y's, each	3.25	4.50	6.00	6.00	8.00	8.00	9.00

Size, inches	4 $\frac{3}{4}$	5	5 $\frac{3}{16}$ , 5 $\frac{5}{8}$	6 $\frac{1}{4}$ , 6 $\frac{5}{8}$	7 $\frac{5}{8}$	8 $\frac{1}{4}$ , 8 $\frac{5}{8}$	9 $\frac{5}{8}$
Elbows, each	3.00	3.50	4.00	7.00	10.00	13.00	20.00
Elbows, Reducing, each	3.75	4.35	5.00	8.75	12.50	16.00	25.00
Elbows, 45°, each	4.00	4.50	5.50	9.00	13.00	16.00	25.00
Tees, each	4.25	5.00	5.50	10.00	15.00	20.00	25.00
Tees, Reducing, each	5.25	6.25	6.75	12.50	18.75	25.00	30.00
Crosses, each	6.00	7.00	7.80	14.00	20.00	26.00	40.00
Crosses, Reducing, each	7.50	8.75	9.70	17.50	25.00	32.00	50.00
Plugs, each	1.75	2.00	2.40	3.75	5.50	6.50	7.50
Bushings, each	1.85	2.00	2.50	3.75	5.50	6.50	7.50
Flange Unions, each	5.00	5.50	6.50	8.00	10.00	12.00	15.00
Locknuts, each	1.35	1.50	1.90	2.50	3.50	4.00	4.50
Reducers, each	3.00	3.50	4.00	8.00	10.00	12.00	15.00
Caps, each	2.00	2.15	2.35	4.00	4.35	6.00	7.25
Y's, each	9.00	10.00	12.00	17.00	25.00	---	---

Casing fittings with one or more openings for pipe, add 25 per cent.

NOTE.—Sizes shown indicate casing of inside diameter and will be so furnished unless otherwise specified.

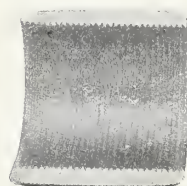


FIG. H-23

## CASING COUPLINGS

Size, inches	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$	3	3 $\frac{1}{4}$	3 $\frac{1}{2}$	3 $\frac{3}{4}$	4	4 $\frac{1}{4}$
Black, each	.16	.20	.25	.30	.35	.40	.46	.52	.60	.68
Galvanized, each	.23	.28	.35	.42	.50	.57	.65	.73	.85	1.00

Size, inches	4 $\frac{1}{2}$	4 $\frac{3}{4}$	5	5 $\frac{5}{8}$	6 $\frac{1}{4}$	6 $\frac{5}{8}$	7 $\frac{5}{8}$	8 $\frac{1}{4}$	8 $\frac{5}{8}$
Black, each	.74	.80	.90	1.20	1.35	1.50	1.75	2.25	2.85
Galvanized, each	1.05	1.15	1.30	1.70	1.90	2.15	2.50	3.25	---

## SPECIAL REDUCERS

## Casing to Pipe

Size, inches	2 $\frac{1}{2}$ x 2 $\frac{1}{2}$	3 x 2 $\frac{1}{2}$	3 $\frac{1}{2}$ x 2 $\frac{1}{2}$	4 x 2 $\frac{1}{2}$	4 x 4	4 $\frac{1}{2}$ x 2 $\frac{1}{2}$	5 x 2 $\frac{1}{2}$
Each	2.25	2.50	2.75	3.00	3.25	3.25	3.50

Size, inches	5 $\frac{3}{16}$ x 4 $\frac{1}{2}$	6 x 2 $\frac{1}{2}$	6 $\frac{1}{4}$ x 3	8 $\frac{1}{4}$ x 3	9 $\frac{5}{8}$ x 3	11 $\frac{5}{8}$ x 3
Each	4.00	4.00	5.00	7.00	9.50	13.50



FIG. H-24

For list on sizes not given take list on next larger size.

## WROUGHT IRON PIPE AND FITTINGS

### Lead and Tin Lined

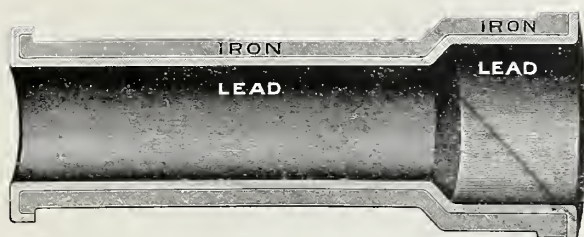


FIG. H-25

**STANDARD LEAD LINED IRON PIPE**

Size, Inches	Per Foot Lead Lined Iron Pipe	Size, Inches	Per Foot Lead Lined Iron Pipe
$\frac{1}{2}$	.30	$3\frac{1}{2}$	1.55
$\frac{3}{4}$	.20	4	1.72 $\frac{1}{2}$
1	.30	$4\frac{1}{2}$	2.00
$1\frac{1}{4}$	.39 $\frac{1}{2}$	5	2.69
$1\frac{1}{2}$	.48	6	3.28
2	.65 $\frac{1}{2}$	7	4.83
$2\frac{1}{2}$	1.00	8	5.73
3	1.38	9 to 30	*

\*9 to 30 inches, prices furnished on application.

**TIN LINED IRON PIPE**

Size, Inches	Per Foot
$\frac{1}{2}$ Tin Lined Iron Pipe	\$0.64
$\frac{3}{4}$ Tin Lined Iron Pipe	.48
1 Tin Lined Iron Pipe	.64
$1\frac{1}{4}$ Tin Lined Iron Pipe	.83
$1\frac{1}{2}$ Tin Lined Iron Pipe	1.03
2 Tin Lined Iron Pipe	1.27
$2\frac{1}{2}$ Tin Lined Iron Pipe	1.80
3 Tin Lined Iron Pipe	2.34
$3\frac{1}{2}$ Tin Lined Iron Pipe	2.90
4 Tin Lined Iron Pipe	3.50
5 Tin Lined Iron Pipe	5.00
6 Tin Lined Iron Pipe	8.00
7 Tin Lined Iron Pipe	10.50
8 Tin Lined Iron Pipe	13.80

Brass Pipe Lined with Tin for open work plumbing.  
Prices furnished on application. Architects and all  
others wishing these pipes must specify the kind.

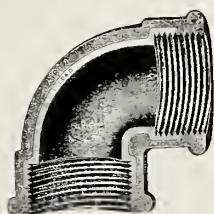
**ELBOW**

FIG. H-26

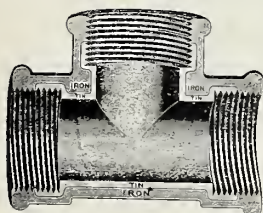
**TEE**

FIG. H-27

### STANDARD LEAD LINED IRON FITTINGS AND TIN LINED IRON FITTINGS

Size, Inches.	Elbows	45° Elbows	Reducing Elbows.	Tees.	Couplings	Reducing Couplings	Unions.
$\frac{3}{4}$	.22	.22	.22	.25	.17	.18	.37
1	.30	.30	.30	.42	.22	.22	.46
$1\frac{1}{4}$	.49	.49	.49	.53	.38	.38	.60
$1\frac{1}{2}$	.58	.58	.58	.68	.48	.48	.87
2	.84	.84	.84	.95	.61	.61	1.28
$2\frac{1}{2}$	1.25	1.25	1.25	1.60	1.03	1.03	1.95
3	2.09	2.09	2.09	2.62	1.42	1.42	3.90
$3\frac{1}{2}$	2.63	2.63	2.63	4.00	1.93	1.93	---
4	4.05	4.05	4.05	5.02	2.53	2.53	---
$4\frac{1}{2}$	5.00	5.00	5.00	5.20	3.10	3.10	---
5	5.80	5.80	5.80	6.10	3.90	3.90	---
6	6.50	6.50	6.50	7.50	4.50	4.50	---

Information about larger sizes on application.

## ROOT SPIRAL RIVETED PIPE

The Bolted Joint Complete and Knocked Down

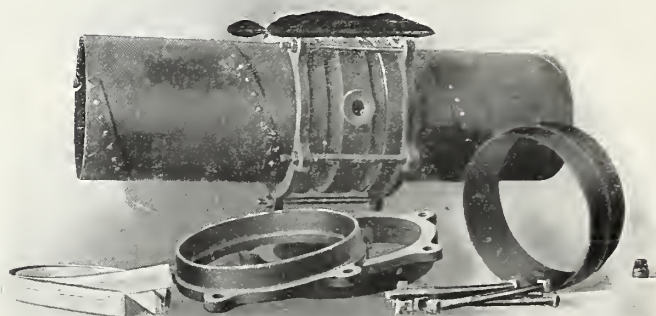


FIG. H-28

The Flanged Joint as applied to Root Spiral Riveted Pipe



FIG. H-29

For Sizes and Prices see following page.



**ASPHALTED PRICE LIST ROOT SPIRAL RIVETED PIPE**

All prices and weights are figured per 100 lineal feet in four standard 25 foot lengths and with four complete joints. Shorter lengths and additional joints increase the price. For pressure purposes we do not advise the use of piping lighter in weight than our regular pressure pipe standard.

Diameter in inches	Thick- ness, B. W. Gauge	Approximate Bursting Pres- sure in Lbs. per Sq. In.	PLAIN END PIPE		With A. & R. Flanges, Bolts and Gaskets.		Complete with Root Bolted Joints.	
			Price.	Weight, lbs.	Price.	Weight, lbs.	Price.	Weight, lbs.
3	20	1325	\$30.20	173	\$37.70	200	\$35.08	210
4	20	1000	39.30	230	48.80	267	46.10	281
5	20	795	45.30	285	56.20	331	53.30	347
6	18	930	63.50	437	78.10	492	75.10	526
7	18	790	70.65	507	89.05	579	83.45	600
8	18	690	81.70	577	102.30	658	95.30	674
9	18	620	91.85	650	117.10	756	107.33	760
10	16	740	126.10	922	154.30	1044	150.10	1112
11	16	670	131.95	1012	163.45	1145	157.67	1219
12	16	615	158.05	1108	191.15	1250	184.73	1320
13	14	730	204.65	1533	239.30	1690	235.93	1773
14	14	675	225.85	1660	265.40	1836	260.53	1926
15	14	630	241.95	1780	288.55	1990	283.71	2104
16	14	590	258.05	1910	313.65	2200	308.21	2288
18	14	525	295.30	2130	361.90	2476	348.74	2550
20	14	470	332.55	2355	407.65	2735	386.23	2785
22	12	565	460.25	3327	565.25	3927	520.09	3767
24	12	515	502.54	3630	617.10	4270	570.54	4110

**GALVANIZED PRICE LIST ROOT SPIRAL RIVETED PIPE**

All prices and weights are figured per 100 lineal feet in five standard 20 foot lengths and with five complete joints. Shorter lengths and additional joints increase the price. For pressure purposes we do not advise the use of piping lighter in weight than our regular pressure pipe standard.

Diameter in inches	Thick- ness, B. W. Gauge	Approximate Bursting Pres- sure in Lbs. per Sq. In.	PLAIN END PIPE		With A. & R. Flanges, Bolts and Gaskets.		Complete with Root Bolted Joints.	
			Price.	Weight, lbs.	Price.	Weight, lbs.	Price.	Weight, lbs.
3	20	1325	\$45.00	186	\$55.30	220	\$51.10	232
4	20	1000	59.00	247	72.30	294	67.50	311
5	20	795	70.00	307	85.30	365	80.00	374
6	18	930	93.00	460	113.35	529	107.50	571
7	18	790	104.70	532	130.20	622	120.70	648
8	18	690	120.60	605	149.20	707	137.60	726
9	18	620	135.65	681	171.30	814	154.00	820
10	16	740	178.10	956	217.30	1109	208.10	1194
11	16	670	185.60	1054	229.60	1221	217.75	1313
12	16	615	218.60	1154	264.80	1332	251.95	1419
13	14	730	276.90	1587	337.00	1789	316.00	1887
14	14	675	299.50	1709	365.60	1933	342.85	2052
15	14	630	322.90	1843	400.25	2109	375.10	2248
16	14	590	348.60	1979	442.20	2347	411.30	2452
18	14	525	395.90	2205	505.60	2643	462.70	2730
20	14	470	443.70	2436	564.75	2917	510.80	2971
22	12	565	590.00	3428	759.70	4185	664.70	3978
24	12	515	640.90	3734	820.10	4542	725.90	4334

## CAST IRON FLANGED FITTINGS FOR ROOT SPIRAL RIVETED PIPE

TEE, 90° ELBOW, TAPPED DISK, 45° ELBOW AND Y BRANCH



FIG. H-30

**BLACK**

Diam. Inches.	90° Elbows.	45° Elbows.	Tees.	Crosses and Y Branches	Reducers	A. & R. Bolts and Gaskets	A. & R. STANDARD.			
							Flanges Loose.	Flanges Attached.	Discs Blank.	Extra for Facing
3	\$1.95	\$1.95	\$2.75	\$4.70	----	.29	.45	.78	.45	.60
4	2.35	2.35	3.45	5.80	\$4.55	.49	.61	.94	.61	.65
5	3.15	3.15	4.85	7.50	5.35	.54	.76	1.10	.76	.70
6	4.30	4.30	6.10	8.90	6.85	.61	.91	1.52	1.12	.75
7	5.45	5.45	7.80	12.10	9.15	.70	1.03	1.95	1.50	.85
8	7.05	7.05	10.30	15.30	10.70	.72	1.17	2.21	1.75	.95
9	9.45	9.45	13.70	18.80	13.70	.87	1.55	2.78	2.25	1.05
10	10.65	10.65	16.40	22.70	15.25	.94	1.80	3.05	2.53	1.15
11	13.75	13.75	20.30	28.10	18.30	1.14	1.93	3.37	3.13	1.25
12	15.75	14.20	22.70	32.80	20.60	1.21	2.07	3.52	3.75	1.40
13	20.00	15.00	26.60	39.10	22.85	1.24	2.33	3.86	4.38	1.55
14	22.00	17.60	31.30	46.10	25.90	1.60	2.59	4.15	5.25	1.75
15	25.80	20.70	37.50	56.30	27.45	1.72	3.11	4.97	5.75	1.95
16	31.30	25.20	47.00	68.80	30.50	2.19	4.14	6.02	6.50	2.15
18	40.70	32.70	70.40	79.80	36.60	2.80	4.75	6.92	8.75	2.40
20	51.60	41.60	90.70	106.35	42.70	3.00	5.24	7.74	11.25	2.60
22	68.80	55.50	98.50	131.40	----	3.57	8.53	11.34	13.75	2.85
24	84.50	68.00	142.90	154.80	----	3.61	9.14	12.26	16.25	3.15

## CAST IRON FLANGED FITTINGS FOR ROOT SPIRAL RIVETED PIPE

TEE, 90° ELBOW, TAPPED DISK, 45° ELBOW AND Y BRANCH

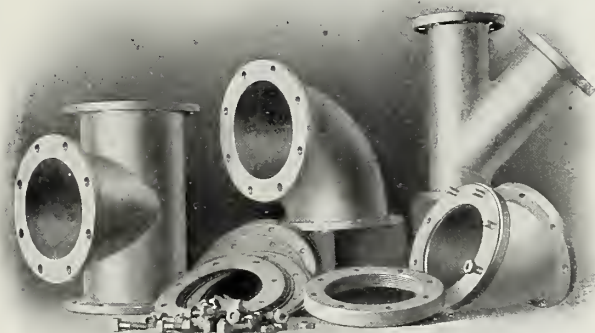
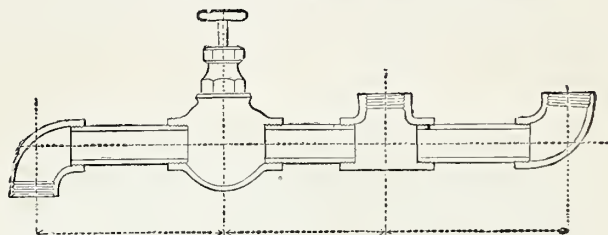


FIG. H-31

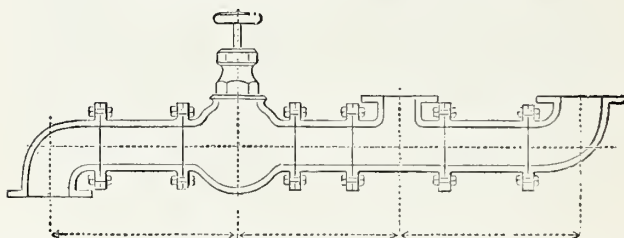
### GALVANIZED

Diam. Inches	90° Elbows	45° Elbows	Tees	Crosses and Y Branches	Reducers	A. & R. Bolts and Gask'ts	A. & R. STANDARD			
							Flanges Loose	Flanges Attached	Discs Blank	Extra For Facing
3	\$2.25	\$2.20	\$3.21	\$5.46	----	.34	.54	.87	.57	.60
4	2.80	2.75	4.10	6.81	5.45	.60	.73	1.06	.76	.65
5	3.75	3.65	5.37	8.60	6.55	.64	.91	1.25	.95	.70
6	5.05	4.90	7.20	10.30	8.35	.75	1.10	1.71	1.43	.75
7	6.45	6.20	9.25	13.95	11.00	.84	1.28	2.20	1.87	.85
8	8.50	8.15	12.20	18.05	12.85	.89	1.45	2.50	2.18	.95
9	11.30	10.90	16.40	22.50	16.60	1.03	1.92	3.15	2.80	1.05
10	12.85	12.40	19.80	26.85	18.75	1.10	2.23	3.50	3.11	1.15
11	16.35	15.90	24.30	33.30	22.25	1.37	2.41	4.00	3.89	1.25
12	18.70	16.75	27.20	39.40	25.20	1.45	2.56	4.50	4.64	1.40
13	24.12	17.80	32.40	47.00	28.00	1.50	2.88	5.40	5.39	1.55
14	27.65	20.80	38.80	58.35	31.70	1.85	3.20	5.85	6.40	1.75
15	31.65	24.55	46.65	70.65	33.85	1.97	3.84	6.94	7.55	1.95
16	39.40	29.35	58.35	85.80	38.10	2.44	5.18	8.46	8.70	2.15
18	50.15	39.60	84.15	100.50	46.20	3.38	5.94	9.57	11.30	2.40
20	65.30	50.00	111.30	133.70	54.00	3.58	6.55	10.60	14.15	2.60
22	87.10	67.40	126.00	168.00	-----	4.15	10.67	15.40	18.30	2.85
24	108.30	83.25	178.60	202.40	-----	4.20	11.43	16.70	21.75	3.15

**STANDARD WROUGHT PIPE  
CUTTING PIPE TO ORDER  
DIAGRAM SHOWING SCREWED JOINTS**



**DIAGRAM SHOWING FLANGED JOINTS**



Too much care cannot be exercised in making diagrams—give all measurements from center to center.

It is advisable, though not necessary, to state the purpose for which pipe is to be used and pressure it must withstand.

If Flanged Fittings are to be used, state if desired drilled, and if with Bolts and Gaskets complete.

**PRICE FOR CUTTING AND THREADING PIPE**

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Per Thread	.06	.06	.06	.06	.06	.06	.08	.10
Size, inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
Per Thread	.14	.20	.30	.40	.40	.50	.60	.80
Size, inches	7	8	9	10	12	14	15	
Per Thread	1.00	1.20	2.00	2.50	3.50	6.50	7.50	

**PRICE PER CUT, NO THREAD**

Size, inches	$\frac{1}{8}$ to 1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Per Cut	.04	.06	.08	.10	.14	.20	.27	.27
Size, inches	$4\frac{1}{2}$	5	6	7	8	9	10	12
Per Cut	.34	.40	.54	.67	.80	1.34	1.67	2.34

**CUTTING LOCKNUT THREADS ON WROUGHT PIPE**

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Each	.10	.10	.10	.10	.12	.14	.16	.20	.30	.40	.50	.70

**THREAD PROTECTORS**

Size, inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
Each	.03	.04	.05	.06	.08	.10	.11	.12	.15	.20	.25	.30	.40

## PIPE BENDS

Made From Wrought Iron or Steel Pipe

QUARTER BEND

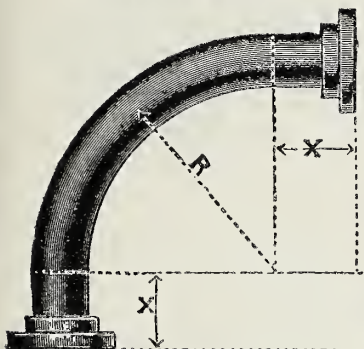


FIG. H-32

U BEND

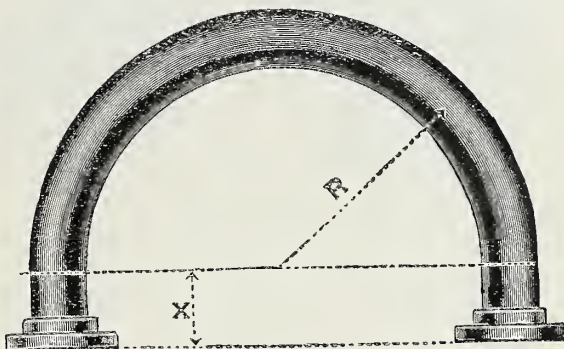


FIG. H-33

OFFSET BEND

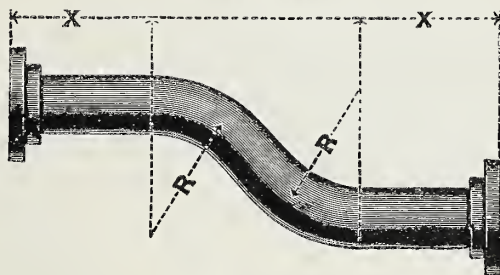


FIG. H-34

We are prepared to bend large pipe in any desired form within the following limits :

The radius of any bend should not be less than five diameters of the pipe and a larger radius is much preferable. The length "X" of straight pipe at each end of bend should be not less than the following :

2½ inch Pipe X	4 inches	7 inch Pipe X	8 inches
3 inch Pipe X	4 inches	8 inch Pipe X	9 inches
3½ inch Pipe X	5 inches	10 inch Pipe X	12 inches
4 inch Pipe X	5 inches	12 inch Pipe X	14 inches
4½ inch Pipe X	6 inches	14 inch Pipe X	16 inches
5 inch Pipe X	6 inches	15 inch Pipe X	16 inches
6 inch Pipe X	7 inches	16 inch Pipe X	20 inches
18 inch Pipe X			22 inches

These bends can be made of extra heavy, full weight, or commercial weight pipe, according to order.



## CAST IRON FITTINGS

## R. &amp; L. ELBOW

ELBOW



FIG. H-35



FIG. H-36

REDUCING ELBOW



FIG. H-37

FIGS. H-35 AND H-36—ELBOWS AND R. &amp; L. ELBOWS

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Black, R. H., each	.05	.05	.06	.08	.10 $\frac{1}{2}$	.16	.20	.28	.50	.75
Galvanized, R. H., each	.10	.10	.12	.16	.21	.32	.40	.56	1.00	1.50
Black, R. and L., each	.06	.06	.07	.09	.12	.18	.23	.32	.60	.85
Pitched, each	---	---	---	.10	.13	.20	.25	.35	.65	1.00

Size, inches	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
Black, R. H., each	1.05	1.20	1.75	2.00	2.75	4.70	6.75	9.00	13.50	20.00
Galvanized, R. H., each	2.10	2.40	3.50	4.00	5.50	9.40	13.50	18.00	27.00	40.00
Pitched, each	1.35	1.50	---	---	---	---	---	---	---	---

FIG. H-37—REDUCING ELBOWS

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Black, each	.06	.07	.09	.12	.18	.23	.32	.60	.85	1.20
Galvanized, each	.12	.14	.18	.24	.36	.46	.64	1.20	1.70	2.40

Size, inches	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
Black, each	1.40	2.00	2.30	3.15	5.40	7.75	10.50	15.50	23.00
Galvanized, each	2.80	4.00	4.60	6.30	10.80	15.50	21.00	31.00	46.00

45° ELBOW



FIG. H-38

SIDE OUTLET ELBOW



FIG. H-39

FIG. H-38—45° ELBOWS

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Black, each	.06	.07	.10	.12	.19	.24	.34	.60	.90	1.25
Galvanized, each	.12	.14	.20	.24	.38	.48	.68	1.20	1.80	2.50

Size, inches	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
Black, each	1.45	2.20	2.50	3.45	5.90	8.50	11.25	17.00	25.00
Galvanized, each	2.90	4.40	5.00	6.90	11.80	17.00	22.50	34.00	50.00

FIG. H-39—SIDE OUTLET ELBOWS

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8
Black, each	.18	.24	.30	.48	.60	.84	1.50	2.25	3.15	3.60	5.25	6.00	8.25	14.00	20.00
Galv., each	.36	.48	.60	.96	1.20	1.68	3.00	4.50	6.30	7.20	10.50	12.00	16.50	28.00	40.00

TEE



FIG. H-40

CAST IRON  
FITTINGS

## TEES

SIDE OUTLET TEE

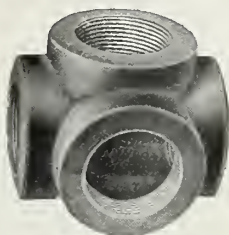


FIG. H-41

FIG. H-40—TEES

Size, inches	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Black, each	.08	.08	.09	.12	.15	.23	.29	.41	.73	1.10
Galvanized, each	.16	.16	.18	.24	.30	.46	.58	.82	1.46	2.20

Size, inches	3 1/2	4	4 1/2	5	6	7	8	9	10	12
Black, each	1.50	1.75	2.55	3.00	4.00	6.80	9.75	13.00	19.50	29.00
Galvanized, each	3.00	3.50	5.10	6.00	8.00	13.60	19.50	26.00	39.00	58.00

FIG. H-41—SIDE OUTLET TEES

Size, inches	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Black, each	.27	.36	.45	.70	.90	1.25	2.25
Galvanized, each	.54	.72	.90	1.40	1.80	2.50	4.50

Size, inches	3	3 1/2	4	4 1/2	5	6	7	8
Black, each	3.25	4.50	5.25	7.65	9.00	12.00	20.00	30.00
Galvanized, each	6.50	9.00	10.50	15.30	18.00	24.00	40.00	60.00

## REDUCING TEES

In describing Tees, the run is first named, then the outlet, thus:

$$\frac{1}{2} \text{ T } \frac{3}{8} = \frac{1}{2} \times \frac{3}{8} \times \frac{3}{4}$$

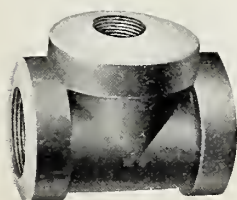


FIG. H-42



FIG. H-43

Size, inches	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2
Black, each	.10	.14	.17	.27	.33	.47	.83	1.25	1.75
Galvanized, each	.20	.28	.34	.54	.66	.94	1.66	2.50	3.50

Size, inches	4	4 1/2	5	6	7	8	9	10	12
Black, each	2.00	2.95	3.50	4.60	7.80	11.25	15.00	22.50	33.50
Galvanized, each	4.00	5.90	7.00	9.20	15.60	22.50	30.00	45.00	67.00

## ECCENTRIC TEE

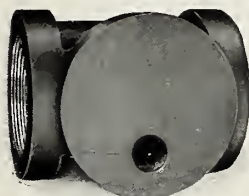


FIG. H-44

FIG. H-44—ECCENTRIC TEES

These fittings are designed to prevent the accumulation and lodgment of condensation.

Orders must be accompanied with sketch, showing position in which the fitting is to be placed. Prices on application.

## CAST IRON FITTINGS

CROSS



FIG. H-45

REDUCING CROSS



FIG. H-46

FIG. H-45—CROSSES

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Black, each	.16	.22	.27	.42	.53	.75	1.30	2.00	2.70	3.15
Galvanized, each	.32	.44	.54	.84	1.06	1.50	2.60	4.00	5.40	6.30

Size, inches	$4\frac{1}{2}$	5	6	7	8	9	10	12
Black, each	4.60	5.50	7.25	12.25	17.50	23.50	35.00	52.50
Galvanized, each	9.20	11.00	14.50	24.50	35.00	47.00	70.00	105.00

FIG. H-46—REDUCING CROSSES

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Black, each	.18	.25	.30	.46	.60	.83	1.45	2.20	3.00	3.50
Galvanized, each	.36	.50	.60	.92	1.20	1.66	2.90	4.40	6.00	7.00

Size, inches	$4\frac{1}{2}$	5	6	7	8	9	10	12
Black, each	5.10	6.00	8.00	13.50	19.25	26.00	38.50	58.00
Galvanized, each	10.20	12.00	16.00	27.00	38.50	52.00	77.00	116.00

Y BRANCH



FIG. H-47

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Black, each	.20	.28	.34	.54	.66	.94	1.66	2.50
Black, Reducing, each	.23	.33	.40	.62	.76	1.08	1.90	2.90
Galvanized, each	.40	.56	.68	1.08	1.32	1.88	3.32	5.00

Size, inches	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8
Black, each	3.50	4.00	5.90	7.00	9.20	15.60	22.50
Black, Reducing, each	4.00	4.60	6.80	8.00	10.60	18.00	26.00
Galvanized, each	7.00	8.00	11.80	14.00	18.40	31.20	45.00

## CAST IRON FITTINGS

## RETURN BENDS

CLOSE PATTERN



FIG. H-48

OPEN PATTERN



FIG. H-49

FIG. H-48—CLOSE PATTERN

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Center to Center, inches	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{3}{4}$	$4\frac{1}{2}$
Black, Right Hand, each	.17	.18	.20	.22	.28	.40	.57	1.20	1.70
Galvanized, Right Hand, each	.34	.36	.40	.44	.56	.80	1.14	2.40	3.40
Black, Right and Left, or Left, each	.20	.21	.23	.26	.33	.46	.66	1.40	1.95

FIG. H-49—OPEN PATTERN

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Center to Center, inches	$1\frac{3}{4}$	$1\frac{7}{8}$	$2\frac{1}{8}$	3	$3\frac{1}{2}$	$4\frac{1}{2}$	$5\frac{1}{2}$	$6\frac{1}{2}$
Black, Right Hand, each	.25	.26	.30	.40	.55	.80	1.35	2.20
Galvanized, Right Hand, each	.50	.52	.60	.80	1.10	1.60	2.70	4.40
Black, Right and Left, or Left, each	.30	.30	.35	.46	.64	.92	1.55	2.50

SPECIAL WIDE PATTERN



FIG. H-50

Size, inches	1	1	1	1	1	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$
Center to Center, inches	3	4	5	6	8	4	6	$4\frac{7}{8}$
Black, Right Hand, each	.45	.50	.60	.75	1.00	1.00	1.25	1.30
Galvanized, each	.80	.90	1.10	1.30	1.60	1.75	2.00	2.30

Size, inches	$1\frac{1}{2}$	$1\frac{1}{2}$	2	2	2	4	4
Center to Center, inches	6	8	$4\frac{7}{8}$	6	8	$7\frac{1}{2}$	11
Black, Right Hand, each	1.60	2.00	1.75	2.00	3.50	6.50	7.50
Galvanized, each	2.60	3.25	3.00	3.25	5.00	10.00	11.00

Other sizes special. Prices on application.

## CAST IRON FITTINGS

## BACK-OUTLET RETURN BEND



FIG. H-51

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Center to Center, inches	$1\frac{1}{8}$	$2\frac{1}{4}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$5\frac{1}{2}$	$6\frac{1}{2}$
Black, Right Hand, each	.38	.42	.60	.80	1.15	2.00	3.00
Galvanized, Right Hand, each	.76	.84	1.20	1.60	2.30	4.00	6.00
Black, Right and Left, each	.42	.48	.70	.95	1.30	2.30	3.50

The back outlet of right and left return bends is always tapped right hand.

## OFFSET



FIG. H-52

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Black, to offset 4 inches, each	.45	.70	1.00	1.20	1.80	3.00
Galvanized, to offset 4 inches, each	.90	1.40	2.00	2.40	3.60	6.00
Black, to offset 6 inches, each	.67	1.05	1.50	1.80	2.70	4.50
Galvanized, to offset 6 inches, each	1.34	2.10	3.00	3.60	5.40	9.00
Black, to offset 8 inches, each	.90	1.40	2.00	2.40	3.60	6.00
Galvanized, to offset 8 inches, each	1.80	2.80	4.00	4.80	7.20	12.00

Size, inches	3	$3\frac{1}{2}$	4	5	6
Black, to offset 4 inches, each	4.00	5.00	6.00	8.00	10.00
Galvanized, to offset 4 inches, each	8.00	10.00	12.00	16.00	20.00
Black, to offset 6 inches, each	6.00	7.50	9.00	12.00	15.00
Galvanized, to offset 6 inches, each	12.00	15.00	18.00	24.00	30.00
Black, to offset 8 inches, each	8.00	10.00	12.00	16.00	20.00
Galvanized, to offset 8 inches, each	16.00	20.00	24.00	32.00	40.00



## CAST IRON FITTINGS

## Branch Tees

No. 1



FIG. H-53

No. 2



FIG. H-54

No. 3



FIG. H-55

All openings in branch tees for circulation are tapped right hand.

Branch tees for box coils are always tapped left hand in branches and right hand in back inlet.

1-inch branch tees, 1-inch or 1½-inch run, are 1¾ inches inside diameter.

1-inch branch tees, 1½-inch or 2-inch run, are 2¼ inches inside diameter.

1½-inch branch tees are all 2½ inches inside diameter.

1½-inch branch tees are all 2½ inches inside diameter.

2-inch branch tees are all 3½ inches inside diameter.

Always order branch tees by size and number.

1-inch branch tees, 1-inch and 1½-inch run, are also made 2¼-inch inside diameter at an advanced price.

No. of Branches.	1 IN. BRANCH TEES.			1½ IN. BRANCH TEES.			1½ IN. BRANCH TEES.			2 IN. BRANCH TEES.		
	2½ in. Center to Center.			3 in. Center to Center.			3½ in. Center to Center.			4½ in. Center to Center.		
	1 in. or 1½ in. Run.	1½ in. Run.	2 in. Run.	1½ in. or 1½ in. Run.	2 in. Run.	2½ in. Run.	1½ in. or 2 in. Run.	2½ in. Run.	3 in. Run.	2 in. Run.	2½ in. or 3 in. Run.	3½ in. Run.
2	.90	1.00	1.15									
3	1.05	1.15	1.35	1.65	1.90	2.40	2.70	3.45	3.80	5.25	5.75	6.25
4	1.15	1.30	1.60	2.00	2.40	2.85	3.35	4.15	4.60	6.40	7.00	7.75
5	1.35	1.45	1.85	2.40	2.90	3.55	4.00	5.00	5.50	7.65	8.50	9.25
6	1.60	1.75	2.10	2.80	3.30	3.95	4.65	5.75	6.25	8.80	9.75	10.75
7	1.90	2.20	2.45	3.20	3.90	4.20	5.25	6.50	7.25	10.60	11.75	13.00
8	2.20	2.45	2.75	3.60	4.50	4.95	5.85	7.00	7.75	11.50	12.75	14.00
9	2.65	2.90	3.40	4.30	5.25	6.15	6.50	8.25	9.00	12.25	13.50	15.00
10		3.30	4.00	4.80	5.85	6.85	7.60	9.25	10.00	13.50	15.00	16.50
11		4.50	4.80	5.00	6.25	7.25	8.00	9.75	10.75	14.25	15.75	18.00
12		4.75	5.10	5.25	6.50	7.65	8.50	10.50	11.50	15.00	16.50	20.00
13		5.50	6.00	6.00	7.00	8.25						
14		7.00	7.25	6.75	7.75	9.00						
15		7.50	7.75	7.50	8.50	9.75						
16		8.00	8.25	8.50	9.50	10.75						

All above prices are for No. 1 Tees, Fig. H-53.

Back or Side Outlets, as shown, are charged as additional Front Outlets. When not otherwise ordered, all openings are tapped right hand.

Back or Side Outlets larger than the size of run will add 50 per cent. to above prices.

Unless otherwise ordered, No. 1 Branch Tees, Fig. H-53, will be furnished.

## CAST IRON FITTINGS

Reducer



FIG. H-56

Eccentric Reducer



FIG. H-57

FIG. H-56—REDUCERS

Size, inches	2	2½	3	3½	4	4½	5	6	7	8	9	10	12
Black, each	.43	.60	.80	1.00	1.35	1.85	2.00	2.70	5.35	6.75	8.35	10.00	15.00
Galvanized, each	.86	1.20	1.60	2.00	2.70	3.70	4.00	5.40	10.70	13.50	16.70	20.00	30.00

FIG. H-57—ECCENTRIC REDUCERS

Size	1	1¼	1½	2	2½	3	3½	4	4½	5	6	7	8	9	10	12
Black, each	.36	.50	.75	1.00	1.50	2.40	3.00	4.00	5.00	6.00	8.00	9.00	11.00	12.50	14.00	18.00

## Bushings

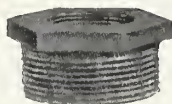


FIG. H-58

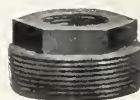


FIG. H-59

FIGS. H-58 AND H-59

Size, inches	¼	¼	½	¾	1	1¼	1½	2	2½	3	3½
Black, each	.04	.04	.04	.05	.06	.07	.09	.14	.21	.30	.40
Galvanized, each	.08	.08	.08	.10	.12	.14	.18	.28	.42	.60	.80

Size, inches	4	4½	5	6	7	8	9	10	12
Black, each	.50	.75	.93	1.25	1.87	2.75	3.25	3.75	5.00
Galvanized, each	1.00	1.50	1.85	2.50	3.75	5.50	6.50	7.50	10.00

NOTE.—Bushings reducing one size only, up to and including 2½ inches, are malleable.

## Faced Bushing

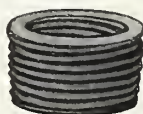


FIG. H-60

Size, inches	¾	1½	¾	1	1¼	1½	2	2½	3	3½	4
Black, Right Hand, each	.08	.09	.11	.13	.17	.22	.32	.48	.70	1.20	1.50

## CAST IRON FITTINGS

## Eccentric Bushing

REDUCING TWO OR MORE SIZES



FIG. H-61

Size, inches	2	2½	3	3½	4	4½	5	6	7	8	9	10	12
Black, each	.27	.42	.60	.80	1.00	1.50	1.85	2.50	3.75	5.50	6.50	7.50	10.00

## Plugs



FIG. H-62

## COUNTERSUNK



FIG. H-63

Size, inches	1/8	1/4	3/8	1/2	3/4	1	1¼	1½	2	2½	3
Black, each	.02	.02	.02	.02	.03	.04	.05	.07	.10	.18	.25
Galvanized, each	.04	.04	.04	.04	.06	.08	.10	.14	.20	.36	.50
Black, Countersunk, each				.04	.06	.08	.09	.11	.15	.30	.40
Black, Left Hand, each					.06	.08	.09	.11	.15		
Black, Solid, each		.04	.04	.04	.06	.08	.09	.11	.15	.27	.38

Size, inches	3½	4	4½	5	6	7	8	9	10	12
Black, each	.38	.42	.65	.88	1.20	1.85	2.75	3.25	3.75	5.00
Galvanized, each	.76	.84	1.30	1.75	2.40	3.70	5.50	6.50	7.50	10.00
Black, Solid, each	.57	.63	1.00	1.35	1.80	2.80	4.15	5.00	5.75	7.50

## Cap

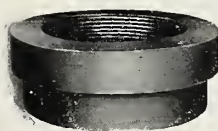


FIG. H-64

Size, inches	2	2½	3	3½	4	4½	5	6	7	8	9	10	12
Black, each	.26	.40	.54	.75	.87	1.05	1.20	1.55	2.50	2.85	4.75	5.50	7.00
Galvanized, each	.52	.80	1.08	1.50	1.74	2.10	2.40	3.10	5.00	5.70	9.50	11.00	14.00

## CAST IRON FITTINGS

## Locknut



FIG. H-65

Size, inches	2	2½	3	3½	4	4½	5	6	7	8	9	10	12
Black, each	.25	.27	.34	.47	.64	.85	.90	1.30	1.70	2.35	2.70	3.00	4.00
Galvanized, each	.50	.54	.68	.94	1.28	1.70	1.80	2.60	3.40	4.70	5.40	6.00	8.00

## LIST OF STANDARD SIZES

## Elbows

Inches.	Inches.	Inches.	Inches.
1¼ x 1¼	1½ x ¾	3½ x 2½	6 x 4
¾ x ¾	1½ x 1	3½ x 3	6 x 5
1½ x ¾	1½ x 1¼	3½ x 3½	6 x 6
1½ x 1	1½ x 1½		
¾ x 1		4 x 2	7 x 6
¾ x ¾	2 x 1	4 x 2½	7 x 7
1 x 1½	2 x 1¼	4 x 3	
1 x ¾	2 x 1½	4 x 3½	8 x 6
1 x 1	2 x 2	4 x 4	8 x 8
1¼ x 1½	2½ x 1½	4½ x 4	9 x 9
1¼ x ¾	2½ x 2	4½ x 4½	
1¼ x 1	2½ x 2½		10 x 10
1¼ x 1¼		5 x 3	
	3 x 2	5 x 4	12 x 12
	3 x 2½	5 x 5	
	3 x 3		

## 45° Elbows

Size, inches	¾, 1, 1¼, 1½, 2, 2½, 3, 3½, 4, 4½, 5, 6, 7, 8, 9, 10, 12.
--------------	-----------------------------------------------------------

## Pitched Elbows

Size, inches	1 x ¾, 1, 1¼ x 1, 1¼, 1½ x 1¼, 1½, 2 x 1½, 2, 2½ x 2, 2½, 3, 3 x 2½, 3½ x 3, 3½, 4.
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## Right and Left Elbows

Size, inches	¼, ⅜, ½, ¾, 1, 1¼, 1½, 2, 2½, 3.
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## CAST IRON FITTINGS

## LIST OF STANDARD SIZES

## TEES

In describing Tees, the run is first named, then the outlet, thus :

$$\frac{1}{2} \text{ T } \frac{3}{8} = \frac{1}{2} \times \frac{3}{8} \times \frac{3}{4}$$

Inches.	Inches.	Inches.	Inches.
$\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{1}{4}$	$\frac{1}{4}$ x $\frac{3}{4}$ x $\frac{3}{4}$	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$	$\frac{2}{2}$ x 2 x $\frac{1}{2}$
$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{4}$ x $\frac{3}{4}$ x 1	$\frac{1}{2}$ x $\frac{1}{2}$ x 2	$\frac{2}{2}$ x 2 x $\frac{3}{4}$
$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{4}$ x $\frac{3}{4}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{2}{2}$	$\frac{2}{2}$ x 2 x 1
$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{8}$	$\frac{1}{4}$ x $\frac{3}{4}$ x $\frac{1}{2}$	2 x $\frac{1}{2}$ x 2	$\frac{2}{2}$ x 2 x $\frac{1}{4}$
$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{4}$ x $\frac{3}{4}$ x 2	2 x $\frac{3}{4}$ x $\frac{1}{2}$	$\frac{2}{2}$ x 2 x 2
$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{8}$	$\frac{1}{4}$ x 1 x $\frac{1}{2}$	2 x 1 x 2	$\frac{2}{2}$ x 2 x $\frac{2}{2}$
$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{4}$ x 1 x $\frac{1}{4}$	2 x 1 x $\frac{3}{4}$	$\frac{2}{2}$ x 2 x $\frac{2}{2}$
$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{4}$ x 1 x 1	2 x 1 x 1	$\frac{2}{2}$ x 2 x 3
$\frac{1}{2}$ x $\frac{1}{2}$ x 1	$\frac{1}{4}$ x 1 x $\frac{1}{2}$	2 x 1 x $\frac{1}{4}$	$\frac{2}{2}$ x 2 x $\frac{1}{2}$
$\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{3}{8}$	$\frac{1}{4}$ x 1 x $\frac{1}{2}$	2 x 1 x $\frac{1}{2}$	$\frac{2}{2}$ x 2 x $\frac{3}{4}$
$\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{1}{2}$	$\frac{1}{4}$ x 1 x 2	2 x 1 x 2	$\frac{2}{2}$ x 2 x 1
$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{1}{2}$	2 x $\frac{1}{4}$ x $\frac{3}{4}$	$\frac{2}{2}$ x 2 x $\frac{1}{4}$
$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{3}{4}$	$\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{3}{4}$	2 x $\frac{1}{4}$ x 1	$\frac{2}{2}$ x 2 x $\frac{1}{2}$
$\frac{3}{4}$ x $\frac{1}{2}$ x 1	$\frac{1}{4}$ x $\frac{1}{4}$ x 1	2 x $\frac{1}{4}$ x $\frac{1}{4}$	$\frac{2}{2}$ x 2 x $\frac{1}{2}$
$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{8}$	$\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{1}{4}$	2 x $\frac{1}{4}$ x $\frac{1}{2}$	$\frac{2}{2}$ x 2 x $\frac{2}{2}$
$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{2}$	$\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{1}{2}$	2 x $\frac{1}{4}$ x 2	$\frac{2}{2}$ x 2 x 3
$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{4}$	$\frac{1}{4}$ x $\frac{1}{4}$ x 2	2 x $\frac{1}{4}$ x $\frac{1}{2}$	$\frac{2}{2}$ x 2 x 4
$\frac{3}{4}$ x $\frac{3}{4}$ x 1	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{4}$	2 x $\frac{1}{2}$ x $\frac{3}{4}$	3 x 1 x 3
$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{4}$	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$	2 x $\frac{1}{2}$ x 1	3 x $\frac{1}{4}$ x 3
$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{3}{4}$ x $\frac{3}{4}$	2 x $\frac{1}{2}$ x $\frac{1}{4}$	3 x $\frac{1}{2}$ x 2
$\frac{3}{4}$ x $\frac{3}{4}$ x 2	$\frac{1}{2}$ x $\frac{3}{4}$ x 1	2 x $\frac{1}{2}$ x $\frac{1}{2}$	3 x $\frac{1}{2}$ x $\frac{2}{2}$
1 x $\frac{3}{8}$ x 1	$\frac{1}{2}$ x $\frac{3}{4}$ x $\frac{1}{4}$	2 x $\frac{1}{2}$ x 2	3 x $\frac{1}{2}$ x 3
1 x $\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{3}{4}$ x $\frac{1}{2}$	2 x $\frac{1}{2}$ x 2	3 x 2 x 1
1 x $\frac{1}{2}$ x $\frac{3}{4}$	$\frac{1}{2}$ x $\frac{3}{4}$ x 2	2 x 2 x $\frac{1}{2}$	3 x 2 x $\frac{1}{4}$
1 x $\frac{3}{4}$ x $\frac{1}{2}$	$\frac{1}{2}$ x 1 x $\frac{1}{2}$	2 x 2 x $\frac{3}{4}$	3 x 2 x $\frac{1}{2}$
1 x $\frac{3}{4}$ x $\frac{3}{4}$	$\frac{1}{2}$ x 1 x 1	2 x 2 x 1	3 x 2 x 2
1 x $\frac{3}{4}$ x 1	$\frac{1}{2}$ x 1 x $\frac{1}{4}$	2 x 2 x $\frac{1}{4}$	3 x 2 x $\frac{2}{2}$
1 x $\frac{3}{4}$ x $\frac{1}{4}$	$\frac{1}{2}$ x 1 x $\frac{1}{2}$	2 x 2 x $\frac{1}{2}$	3 x 2 x 3
1 x $\frac{3}{4}$ x $\frac{1}{2}$	$\frac{1}{2}$ x 1 x 2	2 x 2 x 2	3 x $\frac{2}{2}$ x 1
1 x $\frac{3}{4}$ x 2	$\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{1}{2}$	2 x 2 x 3	3 x $\frac{2}{2}$ x $\frac{1}{4}$
1 x 1 x $\frac{3}{8}$	$\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{3}{4}$	$\frac{2}{2}$ x $\frac{3}{4}$ x $\frac{2}{2}$	3 x $\frac{2}{2}$ x $\frac{1}{2}$
1 x 1 x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{4}$ x 1	$\frac{2}{2}$ x 1 x $\frac{2}{2}$	3 x $\frac{2}{2}$ x 2
1 x 1 x $\frac{3}{4}$	$\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{1}{4}$	$\frac{2}{2}$ x 1 x 2	3 x $\frac{2}{2}$ x $\frac{2}{2}$
1 x 1 x 1	$\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{1}{2}$	$\frac{2}{2}$ x $\frac{1}{4}$ x 2	3 x 3 x $\frac{3}{4}$
1 x 1 x $\frac{1}{4}$	$\frac{1}{2}$ x $\frac{1}{4}$ x 2	$\frac{2}{2}$ x $\frac{1}{2}$ x 1	3 x 3 x 1
1 x 1 x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$	$\frac{2}{2}$ x $\frac{1}{2}$ x $\frac{1}{4}$	3 x 3 x $\frac{1}{4}$
$\frac{1}{4}$ x $\frac{1}{2}$ x $\frac{1}{4}$	$\frac{1}{2}$ x $\frac{1}{2}$ x 1	$\frac{2}{2}$ x $\frac{1}{2}$ x 2	3 x 3 x 2
$\frac{1}{4}$ x $\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{4}$	$\frac{2}{2}$ x $\frac{1}{2}$ x $\frac{2}{2}$	3 x 3 x $\frac{2}{2}$
	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{4}$	$\frac{2}{2}$ x $\frac{1}{2}$ x $\frac{2}{2}$	



## CAST IRON FITTINGS

## LIST OF STANDARD SIZES

## Tees—Continued

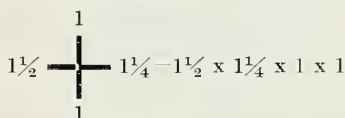
Inches.	Inches.	Inches.	Inches.
3 x 3 x 3	4 x 3 x 2 $\frac{1}{2}$	5 x 4 x 4 $\frac{1}{2}$	7 x 7 x 4
3 x 3 x 3 $\frac{1}{2}$	4 x 3 x 3	5 x 4 x 5	7 x 7 x 5
3 x 3 x 4	4 x 3 x 3 $\frac{1}{2}$	5 x 5 x 1 $\frac{1}{4}$	7 x 7 x 6
3 $\frac{1}{2}$ x 1 x 3 $\frac{1}{2}$	4 x 3 x 4	5 x 5 x 1 $\frac{1}{2}$	7 x 7 x 7
3 $\frac{1}{2}$ x 1 $\frac{1}{4}$ x 3 $\frac{1}{2}$	4 x 3 $\frac{1}{2}$ x 2 $\frac{1}{2}$	5 x 5 x 2	8 x 4 x 8
3 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x 3 $\frac{1}{2}$	4 x 3 $\frac{1}{2}$ x 3	5 x 5 x 2 $\frac{1}{2}$	8 x 5 x 5
3 $\frac{1}{2}$ x 2 x 3 $\frac{1}{2}$	4 x 3 $\frac{1}{2}$ x 3 $\frac{1}{2}$	5 x 5 x 3	8 x 5 x 8
3 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x 2	4 x 3 $\frac{1}{2}$ x 4	5 x 5 x 3 $\frac{1}{2}$	8 x 6 x 6
3 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x 2 $\frac{1}{2}$	4 x 4 x $\frac{3}{4}$	5 x 5 x 4	8 x 6 x 7
3 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x 3	4 x 4 x 1	5 x 5 x 4 $\frac{1}{2}$	8 x 6 x 8
3 $\frac{1}{2}$ x 3 x 1 $\frac{1}{2}$	4 x 4 x 1 $\frac{1}{4}$	5 x 5 x 5	8 x 7 x 6
3 $\frac{1}{2}$ x 3 x 2	4 x 4 x 1 $\frac{1}{2}$	5 x 5 x 6	8 x 7 x 8
3 $\frac{1}{2}$ x 3 x 2 $\frac{1}{2}$	4 x 4 x 2	6 x 2 x 6	8 x 8 x 2
3 $\frac{1}{2}$ x 3 x 3	4 x 4 x 2 $\frac{1}{2}$	6 x 2 $\frac{1}{2}$ x 6	8 x 8 x 2 $\frac{1}{2}$
3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 1	4 x 4 x 3	6 x 3 x 6	8 x 8 x 3
3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 1 $\frac{1}{4}$	4 x 4 x 3 $\frac{1}{2}$	6 x 4 x 4	8 x 8 x 3 $\frac{1}{2}$
3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 1 $\frac{1}{2}$	4 x 4 x 4	6 x 4 x 6	8 x 8 x 4
3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 2	4 x 4 x 5	6 x 5 x 4	8 x 8 x 4 $\frac{1}{2}$
3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 2 $\frac{1}{2}$	4 x 4 x 6	6 x 5 x 5	8 x 8 x 5
3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 3	4 $\frac{1}{2}$ x 4 $\frac{1}{2}$ x 1 $\frac{1}{2}$	6 x 5 x 6	8 x 8 x 6
3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 3 $\frac{1}{2}$	4 $\frac{1}{2}$ x 4 $\frac{1}{2}$ x 2	6 x 6 x 1	8 x 8 x 7
3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x 4	4 $\frac{1}{2}$ x 4 $\frac{1}{2}$ x 2 $\frac{1}{2}$	6 x 6 x 1 $\frac{1}{4}$	8 x 8 x 8
4 x 1 x 4	4 $\frac{1}{2}$ x 4 $\frac{1}{2}$ x 3	6 x 6 x 1 $\frac{1}{2}$	9 x 9 x 5
4 x 1 $\frac{1}{4}$ x 4	4 $\frac{1}{2}$ x 4 $\frac{1}{2}$ x 3 $\frac{1}{2}$	6 x 6 x 2	9 x 9 x 7
4 x 1 $\frac{1}{2}$ x 4	4 $\frac{1}{2}$ x 4 $\frac{1}{2}$ x 4	6 x 6 x 2 $\frac{1}{2}$	9 x 9 x 9
4 x 2 x 1 $\frac{1}{2}$	4 $\frac{1}{2}$ x 4 $\frac{1}{2}$ x 4 $\frac{1}{2}$	6 x 6 x 3	10 x 8 x 8
4 x 2 x 2	5 x 2 x 5	6 x 6 x 3 $\frac{1}{2}$	10 x 10 x 4
4 x 2 x 2 $\frac{1}{2}$	5 x 2 $\frac{1}{2}$ x 3	6 x 6 x	10 x 10 x 5
4 x 2 x 3	5 x 2 $\frac{1}{2}$ x 4	6 x 6 x 4 $\frac{1}{2}$	10 x 10 x 6
4 x 2 x 4	5 x 2 $\frac{1}{2}$ x 5	6 x 6 x 5	10 x 10 x 8
4 x 2 $\frac{1}{2}$ x 1	5 x 3 x 2	6 x 6 x 6	10 x 10 x 10
4 x 2 $\frac{1}{2}$ x 1 $\frac{1}{2}$	5 x 3 x 2 $\frac{1}{2}$	6 x 6 x 7	12 x 8 x 8
4 x 2 $\frac{1}{2}$ x 2	5 x 3 x 3	6 x 6 x 8	12 x 8 x 10
4 x 2 $\frac{1}{2}$ x 2 $\frac{1}{2}$	5 x 3 x 3 $\frac{1}{2}$	7 x 5 x 5	12 x 12 x 4
4 x 2 $\frac{1}{2}$ x 3	5 x 3 x 4	7 x 5 x 6	12 x 12 x 5
4 x 2 $\frac{1}{2}$ x 4	5 x 3 x 4 $\frac{1}{2}$	7 x 6 x 5	12 x 12 x 6
4 x 3 x $\frac{3}{4}$	5 x 3 x 5	7 x 6 x 6	12 x 12 x 8
4 x 3 x 1	5 x 4 x 2	7 x 6 x 7	12 x 12 x 10
4 x 3 x 1 $\frac{1}{4}$	5 x 4 x 2 $\frac{1}{2}$	7 x 7 x 2 $\frac{1}{2}$	12 x 12 x 12
4 x 3 x 1 $\frac{1}{2}$	5 x 4 x 3	7 x 7 x 3	
4 x 3 x 2	5 x 4 x 4	7 x 7 x 3 $\frac{1}{2}$	

## CAST IRON FITTINGS

## LIST OF STANDARD SIZES

## Crosses

Reducing Crosses are described as follows:



Inches.				Inches.				Inches.			
$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{4}$ x $\frac{1}{4}$	$\frac{1}{4}$ x $\frac{1}{4}$	$2\frac{1}{2}$ x 2	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	$4\frac{1}{2}$ x $4\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	$4\frac{1}{2}$ x $4\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$
$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{3}{8}$ x $\frac{3}{8}$	$\frac{3}{8}$ x $\frac{3}{8}$	$2\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{1}{2}$ x $\frac{3}{4}$	$\frac{1}{2}$ x $\frac{3}{4}$	$\frac{1}{2}$ x $\frac{3}{4}$	5 x 5	5 x 2	5 x 2	5 x 2
$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	$2\frac{1}{2}$ x $2\frac{1}{2}$	1 x 1	1 x 1	1 x 1	5 x 5	5 x $2\frac{1}{2}$	5 x $2\frac{1}{2}$	5 x $2\frac{1}{2}$
$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{8}$ x $\frac{3}{8}$	$\frac{3}{8}$ x $\frac{3}{8}$	$2\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{1}{4}$ x $\frac{1}{4}$	$\frac{1}{4}$ x $\frac{1}{4}$	$\frac{1}{4}$ x $\frac{1}{4}$	5 x 5	5 x 3	5 x 3	5 x 3
$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	$2\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	5 x 5	5 x 4	5 x 4	5 x 4
$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	$2\frac{1}{2}$ x $2\frac{1}{2}$	2 x 2	2 x 2	2 x 2	5 x 5	5 x 5	5 x 5	5 x 5
$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	$2\frac{1}{2}$ x $2\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	6 x 6	6 x 2	6 x 2	6 x 2
1 x 1	1 x 1	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	3 x 3	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	6 x 6	6 x $2\frac{1}{2}$	6 x $2\frac{1}{2}$	6 x $2\frac{1}{2}$
1 x 1	1 x 1	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	3 x 3	1 x 1	1 x 1	1 x 1	6 x 6	6 x 3	6 x 3	6 x 3
1 x 1	1 x 1	1 x 1	1 x 1	3 x 3	$1\frac{1}{4}$ x $1\frac{1}{4}$	$1\frac{1}{4}$ x $1\frac{1}{4}$	$1\frac{1}{4}$ x $1\frac{1}{4}$	6 x 6	6 x $3\frac{1}{2}$	6 x $3\frac{1}{2}$	6 x $3\frac{1}{2}$
$1\frac{1}{4}$ x $1\frac{1}{4}$	$1\frac{1}{4}$ x $1\frac{1}{4}$	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	3 x 3	$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	6 x 6	6 x 4	6 x 4	6 x 4
$1\frac{1}{4}$ x $1\frac{1}{4}$	$1\frac{1}{4}$ x $1\frac{1}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	3 x 3	2 x 2	2 x 2	2 x 2	6 x 6	6 x 5	6 x 5	6 x 5
$1\frac{1}{4}$ x $1\frac{1}{4}$	$1\frac{1}{4}$ x $1\frac{1}{4}$	1 x 1	1 x 1	3 x 3	$2\frac{1}{2}$ x $2\frac{1}{2}$	$2\frac{1}{2}$ x $2\frac{1}{2}$	$2\frac{1}{2}$ x $2\frac{1}{2}$	6 x 6	6 x 6	6 x 6	6 x 6
$1\frac{1}{4}$ x $1\frac{1}{4}$	$1\frac{1}{4}$ x $1\frac{1}{4}$	$1\frac{1}{4}$ x $1\frac{1}{4}$	$1\frac{1}{4}$ x $1\frac{1}{4}$	3 x 3	3 x 3	3 x 3	3 x 3	7 x 7	7 x 5	7 x 5	7 x 5
$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	$3\frac{1}{2}$ x $3\frac{1}{2}$	2 x 2	2 x 2	2 x 2	7 x 7	7 x 6	7 x 6	7 x 6
$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	1 x 1	1 x 1	$3\frac{1}{2}$ x $3\frac{1}{2}$	$2\frac{1}{2}$ x $2\frac{1}{2}$	$2\frac{1}{2}$ x $2\frac{1}{2}$	$2\frac{1}{2}$ x $2\frac{1}{2}$	7 x 7	7 x 7	7 x 7	7 x 7
$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	$\frac{1}{2}$ x $\frac{1}{2}$	$3\frac{1}{2}$ x $3\frac{1}{2}$	3 x 3	3 x 3	3 x 3	8 x 8	8 x 6	8 x 6	8 x 6
$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	$3\frac{1}{2}$ x $3\frac{1}{2}$	$3\frac{1}{2}$ x $3\frac{1}{2}$	$3\frac{1}{2}$ x $3\frac{1}{2}$	$3\frac{1}{2}$ x $3\frac{1}{2}$	8 x 8	8 x 7	8 x 7	8 x 7
$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	1 x 1	1 x 1	$3\frac{1}{2}$ x $3\frac{1}{2}$	$3\frac{1}{2}$ x $3\frac{1}{2}$	$3\frac{1}{2}$ x $3\frac{1}{2}$	$3\frac{1}{2}$ x $3\frac{1}{2}$	8 x 8	8 x 8	8 x 8	8 x 8
$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{4}$ x $1\frac{1}{4}$	$1\frac{1}{4}$ x $1\frac{1}{4}$	4 x 4	$1\frac{1}{4}$ x $1\frac{1}{4}$	$1\frac{1}{4}$ x $1\frac{1}{4}$	$1\frac{1}{4}$ x $1\frac{1}{4}$	9 x 9	9 x 9	9 x 9	9 x 9
$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	4 x 4	$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	10 x 10	10 x 7	10 x 7	10 x 7
2 x 2	2 x 2	$\frac{3}{4}$ x $\frac{3}{4}$	$\frac{3}{4}$ x $\frac{3}{4}$	4 x 4	2 x 2	2 x 2	2 x 2	10 x 10	10 x 8	10 x 8	10 x 8
2 x 2	2 x 2	1 x 1	1 x 1	4 x 4	$2\frac{1}{2}$ x $2\frac{1}{2}$	$2\frac{1}{2}$ x $2\frac{1}{2}$	$2\frac{1}{2}$ x $2\frac{1}{2}$	10 x 10	10 x 10	10 x 10	10 x 10
2 x 2	2 x 2	$1\frac{1}{4}$ x $1\frac{1}{4}$	$1\frac{1}{4}$ x $1\frac{1}{4}$	4 x 4	3 x 3	3 x 3	3 x 3	12 x 12	12 x 8	12 x 8	12 x 8
2 x 2	2 x 2	$1\frac{1}{2}$ x $1\frac{1}{2}$	$1\frac{1}{2}$ x $1\frac{1}{2}$	4 x 4	$3\frac{1}{2}$ x $3\frac{1}{2}$	$3\frac{1}{2}$ x $3\frac{1}{2}$	$3\frac{1}{2}$ x $3\frac{1}{2}$	12 x 12	12 x 10	12 x 10	12 x 10
2 x 2	2 x 2	2 x 2	2 x 2	4 x 4	4 x 4	4 x 4	4 x 4	12 x 12	12 x 12	12 x 12	12 x 12

## Reducing Couplings

$\frac{1}{2}$ x $\frac{3}{8}$	$1\frac{1}{2}$ x $1\frac{1}{4}$	$2\frac{1}{2}$ x 1	$3\frac{1}{2}$ x 1	$4\frac{1}{2}$ x 2	6 x 4
$\frac{1}{2}$ x $\frac{1}{4}$	$1\frac{1}{2}$ x 1	$2\frac{1}{2}$ x $\frac{3}{4}$		$4\frac{1}{2}$ x $1\frac{1}{2}$	6 x 3
$\frac{3}{4}$ x $\frac{1}{2}$	$1\frac{1}{2}$ x $\frac{3}{4}$	3 x $2\frac{1}{2}$	4 x $3\frac{1}{2}$	$4\frac{1}{2}$ x $1\frac{1}{4}$	6 x $2\frac{1}{2}$
$\frac{3}{4}$ x $\frac{3}{8}$	$1\frac{1}{2}$ x $\frac{1}{2}$	3 x 2	4 x 3		6 x 2
1 x $\frac{3}{4}$	2 x $1\frac{1}{2}$	3 x $1\frac{1}{2}$	4 x $2\frac{1}{2}$	5 x $4\frac{1}{2}$	7 x 6
1 x $\frac{1}{2}$	2 x $1\frac{1}{4}$	3 x $1\frac{1}{4}$	4 x 2	5 x 4	7 x 5
1 x $\frac{3}{8}$	2 x 1	3 x 1	4 x $1\frac{1}{2}$	5 x $3\frac{1}{2}$	7 x 4
	2 x $\frac{3}{4}$		4 x $1\frac{1}{4}$	5 x 3	
	2 x $\frac{1}{2}$		4 x 1	5 x $2\frac{1}{2}$	
$1\frac{1}{4}$ x 1		$3\frac{1}{2}$ x 3		5 x 2	8 x 6
$1\frac{1}{4}$ x $\frac{3}{4}$	$2\frac{1}{2}$ x 2	$3\frac{1}{2}$ x $2\frac{1}{2}$	$4\frac{1}{2}$ x 4	5 x $1\frac{1}{2}$	8 x 5
$1\frac{1}{4}$ x $\frac{1}{2}$	$2\frac{1}{2}$ x $1\frac{1}{2}$	$3\frac{1}{2}$ x 2	$4\frac{1}{2}$ x $3\frac{1}{2}$	5 x $1\frac{1}{4}$	8 x 4
	$2\frac{1}{2}$ x 1	$3\frac{1}{2}$ x $1\frac{1}{2}$	$4\frac{1}{2}$ x 3		10 x 8
	$2\frac{1}{2}$ x $1\frac{1}{4}$	$3\frac{1}{2}$ x $1\frac{1}{4}$	$4\frac{1}{2}$ x $2\frac{1}{2}$	6 x 5	12 x 10

## CAST IRON FITTINGS

## LIST OF STANDARD REDUCING SIZES

## Eccentric Reducers

Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
2 x $\frac{3}{4}$	$3\frac{1}{2}$ x 1	$4\frac{1}{2}$ x $2\frac{1}{2}$	6 x 3	8 x 2	9 x $4\frac{1}{2}$	10 x 8
2 x 1	$3\frac{1}{2}$ x $1\frac{1}{4}$	$4\frac{1}{2}$ x 3	6 x $3\frac{1}{2}$	8 x $2\frac{1}{2}$	9 x 5	10 x 9
2 x $1\frac{1}{4}$	$3\frac{1}{2}$ x $1\frac{1}{2}$	$4\frac{1}{2}$ x $3\frac{1}{2}$	6 x 4	8 x 3	9 x 6	
2 x $1\frac{1}{2}$	$3\frac{1}{2}$ x 2	$4\frac{1}{2}$ x 4	6 x $4\frac{1}{2}$	8 x $3\frac{1}{2}$	9 x 7	12 x 3
	$3\frac{1}{2}$ x $2\frac{1}{2}$		6 x 5	8 x 4	9 x 8	12 x $3\frac{1}{2}$
$2\frac{1}{2}$ x 1	$3\frac{1}{2}$ x 3	5 x $1\frac{1}{2}$		8 x $4\frac{1}{2}$		12 x 4
$2\frac{1}{2}$ x $1\frac{1}{4}$		5 x 2	7 x $1\frac{1}{2}$	8 x 5	10 x $2\frac{1}{2}$	12 x $4\frac{1}{2}$
$2\frac{1}{2}$ x $1\frac{1}{2}$	4 x $1\frac{1}{4}$	5 x $2\frac{1}{2}$	7 x 2	8 x 6	10 x 3	12 x 5
$2\frac{1}{2}$ x 2	4 x $1\frac{1}{2}$	5 x 3	7 x $2\frac{1}{2}$	8 x 7	10 x $3\frac{1}{2}$	12 x 6
	4 x 2	5 x $3\frac{1}{2}$	7 x 3		10 x 4	12 x 7
3 x 1	4 x $2\frac{1}{2}$	5 x 4	7 x $3\frac{1}{2}$	9 x 2	10 x $4\frac{1}{2}$	12 x 8
3 x $1\frac{1}{4}$	4 x 3		7 x 4	9 x $2\frac{1}{2}$	10 x 5	12 x 9
3 x $1\frac{1}{2}$	4 x $3\frac{1}{2}$	6 x $1\frac{1}{2}$	7 x $4\frac{1}{2}$	9 x 3	10 x 6	12 x 10
3 x 2		6 x 2	7 x 5	9 x $3\frac{1}{2}$	10 x 7	
3 x $2\frac{1}{2}$	$4\frac{1}{2}$ x 2	6 x $2\frac{1}{2}$	7 x 6	9 x 4		

## Bushings

Inches.	Inches.	Inches.	Inches.
$\frac{1}{2}$ x $\frac{1}{4}$	$2\frac{1}{2}$ x $1\frac{1}{4}$	$4\frac{1}{2}$ x $2\frac{1}{2}$	7 x $4\frac{1}{2}$
$\frac{3}{4}$ x $\frac{1}{4}$	$2\frac{1}{2}$ x $1\frac{1}{2}$	$4\frac{1}{2}$ x 3	7 x 5
$\frac{3}{4}$ x $\frac{3}{8}$	3 x $\frac{3}{4}$	$4\frac{1}{2}$ x $3\frac{1}{2}$	7 x 6
1 x $\frac{1}{4}$	3 x 1	$4\frac{1}{2}$ x 4	
1 x $\frac{3}{8}$	3 x $1\frac{1}{4}$	5 x 2	8 x 2
1 x $\frac{1}{2}$	3 x $1\frac{1}{2}$	5 x $2\frac{1}{2}$	8 x 3
	3 x 2	5 x 3	8 x 4
$1\frac{1}{4}$ x $\frac{1}{4}$	3 x $2\frac{1}{2}$	5 x $3\frac{1}{2}$	8 x 5
$1\frac{1}{4}$ x $\frac{3}{8}$	$3\frac{1}{2}$ x 1	5 x 4	8 x 6
$1\frac{1}{4}$ x $\frac{1}{2}$	$3\frac{1}{2}$ x $1\frac{1}{4}$	5 x $4\frac{1}{2}$	8 x 7
$1\frac{1}{4}$ x $\frac{3}{4}$	$3\frac{1}{2}$ x $1\frac{1}{2}$	6 x 2	9 x 6
$1\frac{1}{2}$ x $\frac{3}{8}$	$3\frac{1}{2}$ x 2	6 x $2\frac{1}{2}$	9 x 7
$1\frac{1}{2}$ x $\frac{1}{2}$	$3\frac{1}{2}$ x $2\frac{1}{2}$	6 x 3	9 x 8
$1\frac{1}{2}$ x $\frac{3}{4}$	$3\frac{1}{2}$ x 3	6 x $3\frac{1}{2}$	
$1\frac{1}{2}$ x 1	4 x 1	6 x 4	10 x 4
2 x $\frac{1}{2}$	4 x $1\frac{1}{4}$	6 x $4\frac{1}{2}$	10 x 5
2 x $\frac{3}{4}$	4 x $1\frac{1}{2}$	6 x 5	10 x 6
2 x 1	4 x 2	7 x 2	10 x 7
2 x $1\frac{1}{4}$	4 x $2\frac{1}{2}$	7 x $2\frac{1}{2}$	10 x 8
	4 x 3	7 x 3	12 x 6
$2\frac{1}{2}$ x $\frac{3}{4}$	4 x $3\frac{1}{2}$	7 x $3\frac{1}{2}$	12 x 8
$2\frac{1}{2}$ x 1	$4\frac{1}{2}$ x 2	7 x 4	12 x 10

## CAST IRON FITTINGS

## Flange Union

FACED. NO GASKET



FIG. H-66

Size, inches .....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Diam. of Flanges, inches	$3\frac{1}{8}$	$3\frac{1}{8}$	$3\frac{3}{4}$	$4\frac{1}{8}$	$4\frac{3}{8}$	$5\frac{1}{4}$	6	$6\frac{3}{4}$	$7\frac{3}{8}$
Number of Bolts in each	3	3	4	4	4	4	4	4	4
Black, each .....	.40	.46	.52	.64	.78	1.00	1.25	1.50	1.80
Galvanized, each .....	.80	.92	1.04	1.28	1.56	2.00	2.50	3.00	3.60

Size, inches .....	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
Diam. of Flanges, in.	$8\frac{1}{8}$	$8\frac{3}{4}$	$9\frac{5}{16}$	$10\frac{3}{4}$	12	$13\frac{1}{8}$	$14\frac{1}{2}$	$16\frac{1}{8}$	18
No. of Bolts in each	5	5	5	6	7	8	8	10	10
Black, each .....	2.10	2.70	3.15	3.95	5.50	7.00	10.00	11.50	16.00
Galvanized, each .....	4.20	5.40	6.30	7.90	11.00	14.00	20.00	23.00	32.00

## Flange Union

EXTRA HEAVY. FACED. NO GASKET.



FIG. H-67

Size, inches .....	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Diameter of Flanges, inches	$3\frac{1}{4}$	$3\frac{5}{8}$	$4\frac{1}{4}$	$4\frac{1}{2}$	$5\frac{3}{8}$	6	$6\frac{3}{4}$
Number of Bolts in each	4	4	4	4	5	5	6
Black, each .....	.70	.80	1.00	1.15	1.50	1.90	2.25

Size, inches .....	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8
Diameter of Flanges, inches	$7\frac{1}{2}$	8	$8\frac{5}{8}$	$9\frac{3}{8}$	$10\frac{3}{4}$	12	$13\frac{3}{8}$
Number of Bolts in each	6	7	8	8	9	10	10
Black, each .....	2.70	3.15	4.00	4.75	6.00	8.25	10.50

## CAST IRON FITTINGS

Flanges

SADDLE

COMMON

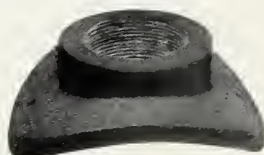
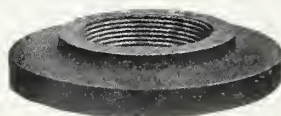


FIG. H-68

COMMON FLANGES

FIG. H-69

Size of Pipe in Inches

	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12	14
3	.10																			
$3\frac{1}{2}$		.15	.15																	
4			.22	.16	.16															
$4\frac{1}{2}$				.25	.22															
5			.30	.30	.30	.35														
$5\frac{1}{2}$				.40	.40	.35														
6				.42	.40	.40	.42	.42	.50											
$6\frac{1}{2}$							.50	.50	.50											
7							.62	.62	.62											
$7\frac{1}{2}$								.75												
8							.90	.90	.90	.90										
$8\frac{1}{2}$									1.00	1.00										
9							1.30	1.25	1.15	1.15	1.15	1.15								
$9\frac{1}{2}$									1.25											
10							2.15	2.00	1.80	1.50	1.50	1.50	1.50	1.50						
11										2.00	1.75	1.75	1.75							
12												2.20	2.20	2.20	2.20					
$12\frac{1}{2}$													2.20	2.20	2.20					
13														2.80	2.80	2.80				
$13\frac{1}{2}$														2.80	2.80	2.80				
14														3.25	3.25	3.25				
15															4.00	4.00	4.00			
16																5.00	5.00	5.00		
17																	5.75	5.75		
18																		7.00	7.00	
19																			7.50	7.50
20																				8.50

Other sizes made to order.

**SADDLE FLANGES** made to order. Prices on application.

All flanges furnished not faced or drilled unless otherwise specified.

## Drilled Floor Flange



FIG. H-70

Pipe, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	1	1	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	2
Diameter Flange, in.	3	3	$3\frac{1}{2}$	$3\frac{1}{2}$	4	4	5	4	5	$4\frac{1}{2}$	5	$5\frac{1}{2}$
Black, each	.10	.10	.15	.15	.22	.16	.30	.16	.30	.22	.30	.35
Galvanized, each	.20	.20	.30	.30	.44	.32	.60	.32	.60	.44	.60	.70



## CAST IRON FITTINGS

## Extra Heavy

SUITABLE FOR 150 POUNDS WORKING PRESSURE

ELBOW

REDUCING ELBOW

45° ELBOW



FIG. H-71



FIG. H-72



FIG. H-73

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. H-71—Black, each	.12	.12	.12	.15	.18	.26	.30	.51	.85	1.30
Fig. H-72—Black, Reducing, each	.15	.15	.15	.18	.22	.30	.35	.60	1.00	1.50
Fig. H-73—Black, 45° Elbows, each	.18	.18	.18	.21	.25	.30	.36	.60	.85	1.50

Size, inches	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10	12
Fig. H-71—Black, each	1.65	2.10	2.75	3.40	5.30	7.00	9.25	15.00	28.00
Fig. H-72—Black, Reducing, each	2.00	2.50	3.25	4.00	6.25	8.25	10.75	17.50	32.50
Fig. H-73—Black, 45° Elbows, each	1.90	2.30	3.00	3.65	5.60	8.00	10.50	17.00	30.00

TEE

REDUCING TEES

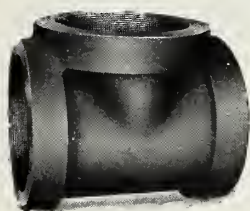


FIG. H-74

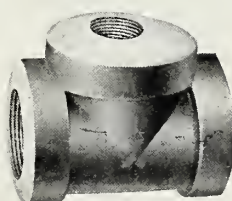


FIG. H-75

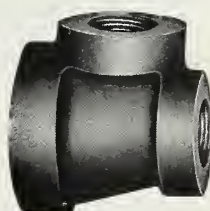


FIG. H-76

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. H-74—Black, each	.18	.18	.18	.18	.25	.35	.45	.60	1.30	1.50
Figs. H-75 and H-76—Black, each	.25	.25	.25	.25	.30	.40	.55	.70	1.50	1.75

Size, inches	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10	12
Fig. H-74—Black, each	2.40	3.00	3.75	4.60	6.30	10.50	15.00	22.50	40.00
Figs. H-75 and H-76—Black, each	2.85	3.50	4.50	5.40	7.30	12.50	17.50	26.00	46.00

## CAST IRON FITTINGS

Extra Heavy

SUITABLE FOR 150 POUNDS WORKING PRESSURE

CROSS

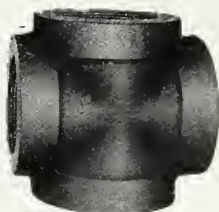


FIG. H-77

Y BRANCH



FIG. H-78

FIG. H-77—CROSSES

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Black, each	.45	.45	.70	.80	.90	2.00	2.50	3.00
Black, Reducing, each	.55	.55	.80	.95	1.05	2.40	3.00	3.50

Size, inches	4	$4\frac{1}{2}$	5	6	7	8	10	12
Black, each	3.75	5.00	5.50	9.00	12.00	18.00	30.00	60.00
Black, Reducing, each	4.50	6.00	6.50	10.75	14.50	21.50	36.00	72.00

FIG. H-78—Y BRANCHES

Size, inches	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10
Black, each	3.30	4.25	4.50	7.00	7.50	12.00	18.00	22.50	37.50

REDUCER

CAP

BUSHING

PLUG



FIG. H-79

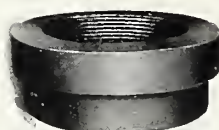


FIG. H-80



FIG. H-81



FIG. H-82

Size, inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10	12
Fig. H-79—Black, each	.70	.80	1.00	1.25	1.50	2.00	2.10	2.80	4.50	6.00	9.00	11.00

Size, inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10	12
Fig. H-80—Black, each	.60	.80	1.00	1.35	1.50	2.00	2.10	2.90	4.30	5.50	9.25	11.00

Size, inches	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10	12
Fig. H-81—Black, each	1.25	1.50	1.60	3.00	3.25	3.90	5.00	5.50	10.50	12.00

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Fig. H-82—Black, each	.15	.15	.15	.20	.25	.40	.55	.80

Size, inches	4	$4\frac{1}{2}$	5	6	7	8	10	12
Fig. H-82—Black, each	.90	1.50	1.70	2.50	3.80	4.00	6.50	11.00

## WROUGHT IRON NIPPLES

CLOSE

Black

SHOULDER



FIG. H-83



FIG. H-84

Right Hand

LENGTH, INCHES.						EACH.			EACH.										
Close.	Short.	Long.				Size.	Close or Short.	Long.	Lengths, Inches.										
		2	3	4	5				4	5	6	7	8	9	10	11	12		
3/4	1 1/2	2	2 1/2	3	3 1/2	1 1/8	.04	.06	.07	.08	.10	.12	.14	.15	.17	.18	.19		
1	1 3/8	2	2 1/2	3	3 1/2	1 1/4	.04	.06	.07	.08	.10	.12	.14	.15	.17	.18	.19		
1 1/8	1 1/2	2	2 1/2	3	3 1/2	1 1/2	.04	.06	.07	.08	.10	.12	.14	.15	.17	.18	.19		
1 1/4	1 1/2	2	2 1/2	3	3 1/2	1 3/4	.05	.07	.08	.10	.12	.14	.16	.18	.20	.22	.23		
1 1/2	2	2 1/2	3	3 1/2	4	2	.06	.09	—	.11	.13	.17	.18	.20	.22	.24	.26		
1 3/8	2	2 1/2	3	3 1/2	4	1	.08	.13	—	.15	.18	.23	.25	.28	.31	.34	.36		
1 3/4	2 1/2	3	3 1/2	4	4 1/2	1 1/4	.11	.17	—	.20	.24	.29	.33	.36	.40	.44	.47		
2	2 1/2	3	3 1/2	4	4 1/2	1 1/2	.13	.20	—	.25	.29	.36	.40	.45	.50	.54	.59		
2 1/8	2 1/2	3	3 1/2	4	4 1/2	2	.18	.27	—	.32	.38	.50	.54	.59	.65	.72	.77		
2 1/4	3	3 1/2	4	4 1/2	5	2 1/2	.39	.59	—	—	.68	.90	.97	1.06	1.17	1.26	1.35		
2 1/2	3	3 1/2	4	4 1/2	5	3	.48	.72	—	—	.85	1.08	1.20	1.33	1.45	1.58	1.70		
2 3/4	4	4 1/2	5	5 1/2	6	3 1/2	.75	1.05	—	—	—	1.30	1.45	1.60	1.75	1.90	2.05		
3	4	4 1/2	5	5 1/2	6	4	.85	1.20	—	—	—	1.52	1.69	1.87	2.05	2.22	2.40		
3 1/4	4	4 1/2	5	5 1/2	6	4 1/2	1.25	1.70	—	—	—	2.25	2.50	2.75	2.95	3.17	3.40		
3 1/2	4 1/2	5	5 1/2	6	6 1/2	5	1.55	2.45	—	—	—	2.58	2.83	3.10	3.35	3.60	3.85		
3 3/4	4 1/2	5	5 1/2	6	6 1/2	6	1.85	2.90	—	—	—	3.05	3.35	3.70	4.00	4.30	4.65		
4	5	6	—	—	—	7	3.20	3.60	—	—	—	4.05	4.45	4.90	5.30	5.75	6.15		
4 1/4	5	6	—	—	—	8	3.55	4.05	—	—	—	4.55	5.05	5.50	6.00	6.50	7.00		
5	6	8	—	—	—	9	5.25	6.50	—	—	—	—	—	7.10	7.75	8.40	9.00		
5 1/4	6	8	—	—	—	10	6.75	8.25	—	—	—	—	—	8.90	9.70	10.40	11.15		
5 1/2	6	8	—	—	—	12	8.00	10.00	—	—	—	—	—	10.80	11.75	12.70	13.65		

Nipples made to order from extra heavy pipe at double above list.

Right and Left

LENGTH, INCHES.						EACH.			EACH.										
Close.	Short.	Long.				Size.	Close or Short.	Long.	Lengths, Inches.										
		2	3	4	5				4	5	6	7	8	9	10	11	12		
3/4	1 1/2	2	2 1/2	3	3 1/2	1 1/8	.05	.08	.09	.11	.13	.16	.18	.20	.23	.25	.27		
1	1 1/2	2	2 1/2	3	3 1/2	1 1/4	.05	.08	.09	.11	.13	.16	.18	.20	.23	.25	.27		
1 1/8	1 1/2	2	2 1/2	3	3 1/2	1 1/2	.05	.08	.09	.11	.13	.16	.18	.20	.23	.25	.27		
1 1/4	1 1/2	2	2 1/2	3	3 1/2	1 3/4	.07	.10	.11	.13	.16	.18	.21	.24	.27	.29	.31		
1 1/2	2	2 1/2	3	3 1/2	4	2	.08	.12	—	.15	.17	.23	.25	.27	.29	.32	.35		
1 3/8	2	2 1/2	3	3 1/2	4	1	.11	.18	—	.20	.24	.31	.33	.37	.41	.45	.48		
1 3/4	2 1/2	3	3 1/2	4	4 1/2	1 1/4	.15	.23	—	.27	.32	.39	.45	.50	.55	.60	.65		
2	2 1/2	3	3 1/2	4	4 1/2	1 1/2	.18	.27	—	.34	.39	.48	.52	.60	.67	.72	.80		
2 1/8	3	3 1/2	4	4 1/2	5	2	.24	.36	—	.43	.51	.67	.72	.80	.87	.96	1.03		
2 1/4	3	3 1/2	4	4 1/2	5	2 1/2	.52	.79	—	—	.91	1.20	1.30	1.40	1.55	1.68	1.80		
2 1/2	3	3 1/2	4	4 1/2	5	3	.65	.96	—	—	1.13	1.44	1.60	1.77	1.93	2.10	2.27		
2 3/4	4	4 1/2	5	5 1/2	6	3 1/2	1.00	1.40	—	—	—	1.75	1.95	2.15	2.35	2.55	2.75		
3	4	4 1/2	5	5 1/2	6	4	1.15	1.60	—	—	—	2.00	2.25	2.50	2.75	3.00	3.25		

Add 60 per cent. to above prices for Galvanized Nipples threaded right and left.

## WROUGHT IRON NIPPLES—GALVANIZED

### Right Hand

LENGTH, INCHES.						SIZE.	EACH.		EACH.												
Close.	Short.	Long.					Close or Short.	Long.	Lengths, Inches.												
									4	5	6	7	8	9	10	11	12				
$\frac{3}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{1}{8}$	.06	.11	.12	.15	.17	.21	.24	.26	.29	.31	.34				
1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{1}{4}$	.06	.11	.12	.15	.17	.21	.24	.26	.29	.31	.34				
	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{3}{8}$	.06	.11	.12	.15	.17	.21	.24	.26	.29	.31	.34				
$1\frac{1}{8}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	$\frac{1}{2}$	.06	.11	.13	.16	.18	.23	.26	.28	.31	.33	.36				
$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$\frac{3}{4}$	.08	.14	--	.18	.21	.26	.29	.32	.35	.38	.41				
$1\frac{5}{8}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	1	.11	.19	--	.24	.28	.34	.38	.42	.47	.51	.55				
$1\frac{3}{4}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	$1\frac{1}{4}$	.17	.29	--	.32	.38	.45	.51	.57	.63	.69	.75				
2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	$1\frac{1}{2}$	.21	.35	--	.39	.46	.55	.63	.70	.77	.84	.91				
$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	2	.27	.47	--	.52	.61	.74	.83	.93	1.03	1.13	1.23				
$2\frac{3}{4}$	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$2\frac{1}{2}$	.56	.86	--	1.00	1.26	1.41	1.56	1.71	1.86	2.01					
3	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	3	.70	1.10	--	1.30	1.60	1.80	2.00	2.20	2.40	2.60					
$3\frac{1}{4}$	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$3\frac{1}{2}$	1.20	1.70	--	--	2.10	2.35	2.60	2.85	3.15	3.40					
3	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	4	1.35	1.87	--	--	2.30	2.60	2.90	3.20	3.50	3.80					
$3\frac{1}{2}$	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$4\frac{1}{2}$	$4\frac{1}{2}$	1.85	2.60	--	--	3.30	3.65	4.05	4.45	4.85	5.25					
$3\frac{1}{2}$	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$6\frac{1}{2}$	5	2.30	3.15	--	--	3.75	4.20	4.60	5.00	5.40	5.85					
$3\frac{1}{2}$	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$6\frac{1}{2}$	6	2.80	4.25	--	--	4.50	5.00	5.55	6.05	6.60	7.15					
4	5	6	--	--	--	7	4.25	4.95	--	--	5.65	6.35	7.05	7.75	8.45	9.20					
4	5	6	--	--	--	8	5.00	5.80	--	--	6.65	7.50	8.35	9.25	10.10	10.95					

### Lock Nut Nipple



FIG. H-85

Made in Special Lengths. Prices quoted upon specifications

### R. and L. Nipple—Hexagon Center

MALLEABLE IRON



FIG. H-86

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Black, each	.20	.20	.20	.25	.30	.40	.50	.70



## SUPER-EXCELLENT LONG SCREW

MADE FROM EXTRA HEAVY PIPE

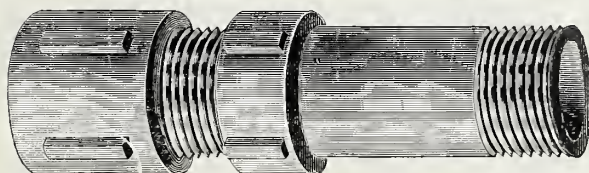


FIG. H-87

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Standard length, inches	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$6\frac{1}{2}$	7	$7\frac{1}{2}$	8	$8\frac{1}{2}$	9
Black, each	.30	.35	.40	.55	.75	1.00	1.30	1.70	2.70	3.70	5.40	6.60
Galvanized, each	.35	.40	.50	.66	1.00	1.25	1.60	2.10	3.10	4.70	6.75	8.25

Long Screws longer than standard length made to order at special prices.

## Wrought Coupling

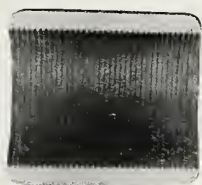


FIG. H-88

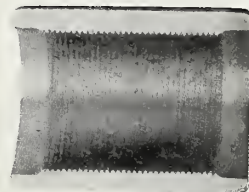
Drive Pipe Coupling  
WITH PROTECTING SLEEVE

FIG. H-89

FIG. H-88—WROUGHT COUPLINGS

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Black, each	.05	.05	.06	.07	.10	.13	.17	.21	.28	.40	.60
Galvanized, each	.06	.06	.08	.10	.13	.18	.25	.32	.40	.55	.80
Black, R. & L., each	.07	.07	.08	.11	.15	.20	.25	.30	.50	.85	1.20

Size, inches	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	9	10	12
Black, each	.80	1.00	1.50	1.65	2.40	3.25	4.25	5.50	7.50	10.00
Galvanized, each	1.05	1.40	2.00	2.25	3.25	---	---	---	---	---
Black, R. & L., each	1.60	2.00	---	---	---	---	---	---	---	---

FIG. H-89—DRIVE PIPE COUPLINGS

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Black, each	.10	.12	.15	.25	.30	.40	.60	.80	1.30	1.50
Galvanized, each	.14	.16	.21	.37	.46	.57	.85	1.15	1.90	2.15
Black, R. & L., each	.15	.18	.23	.38	.45	.70	1.20	1.60	2.60	3.00
Galvanized, R. & L., each	.21	.25	.31	.53	.63	.98	1.70	2.25	3.65	4.20

Size, inches	$4\frac{1}{2}$	5	6	7	8	9	10
Black, each	2.00	2.40	2.80	3.85	4.00	5.00	6.00
Galvanized, each	2.85	3.45	4.00	5.55	5.80	7.25	8.75



## CAST IRON FITTINGS

## LONG TURN, STANDARD WEIGHT

SWEEP ELBOW



FIG. H-90

DOUBLE SWEEP ELBOW



FIG. H-91

Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4
Fig. H-90—Straight, each	.32	.40	.55	.80	1.20	2.25	3.25	3.50
Fig. H-90—Reducing, each	.48	.60	.83	1.20	1.80	3.38	4.88	5.25
Size, inches	4 $\frac{1}{2}$	5	6	7	8	9	10	12
Fig. H-90—Straight, each	5.50	6.50	8.75	13.00	17.00	25.50	30.00	40.00
Fig. H-90—Reducing, each	8.25	9.75	13.13	19.50	25.50	38.25	45.00	60.00
Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4
Fig. H-91—Straight, each	.64	.80	1.10	1.60	2.40	4.50	6.50	7.00
Fig. H-91—Reducing, each	.96	1.20	1.65	2.40	3.60	6.75	9.75	10.50
Size, inches	4 $\frac{1}{2}$	5	6	7	8	9	10	12
Fig. H-91—Straight, each	11.00	13.00	17.50	26.00	34.00	51.00	60.00	80.00
Fig. H-91—Reducing, each	16.50	19.50	26.25	39.00	51.00	76.50	90.00	120.00

SWEEP TEE

DOUBLE SWEEP TEE

SWEEP CROSS



FIG. H-92



FIG. H-93



FIG. H-94

Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4
Fig. H-92—Straight, each	.48	.60	.82	1.20	1.80	3.40	4.90	5.25
Fig. H-92—Reducing, each	.72	.90	1.23	1.80	2.70	5.10	7.35	7.88
Size, inches	4 $\frac{1}{2}$	5	6	7	8	9	10	12
Fig. H-92—Straight, each	8.25	9.75	13.25	19.50	25.50	38.00	45.00	60.00
Fig. H-92—Reducing, each	12.38	14.63	19.88	29.25	38.25	57.00	67.50	90.00
Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4
Fig. H-93—Straight, each	.64	.80	1.10	1.60	2.40	4.50	6.50	7.00
Fig. H-93—Reducing, each	.96	1.20	1.65	2.40	3.60	6.75	9.75	10.50
Size, inches	4 $\frac{1}{2}$	5	6	7	8	9	10	12
Fig. H-93—Straight, each	11.00	13.00	17.50	26.00	34.00	51.00	60.00	80.00
Fig. H-93—Reducing, each	16.50	19.50	26.25	39.00	51.00	76.50	90.00	120.00
Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4
Fig. H-94—Straight, each	.85	1.10	1.50	2.15	3.20	6.00	8.75	9.50
Fig. H-94—Reducing, each	1.28	1.65	2.25	3.23	4.80	9.00	13.13	14.25
Size, inches	4 $\frac{1}{2}$	5	6	7	8	9	10	12
Fig. H-94—Straight, each	15.00	17.50	24.00	35.00	45.00	68.00	80.00	107.00
Fig. H-94—Reducing, each	22.50	26.25	36.00	52.50	67.50	102.00	120.00	160.50

For Galvanized Iron Fittings, double the above lists.

## CAST IRON FITTINGS—FLANGED

The new dimension tables will be found much simpler than those heretofore given.

We have eliminated the fractions, and aimed at simplicity, and the tables now given will be found a great convenience to all engineers.

## STANDARD FLANGED FITTINGS

We illustrate on the following pages a line of STANDARD FLANGED FITTINGS FROM 2 INCH UPWARD, WHICH ARE SUITABLE FOR A WORKING PRESSURE OF 125 POUNDS.

## BREAKING STRENGTH OF STANDARD FLANGED FITTINGS

WE HAVE AT VARIOUS TIMES BROKEN AN ASSORTMENT OF SIZES UNDER HYDRAULIC PRESSURE AND FOUND THAT THE MINIMUM BURSTING POINT ON ANY SIZE WAS 700 LBS. PER SQUARE INCH.

It will seem that this factor of safety is very high, but they not only have to stand the strain due to the working pressure, but are also liable to unusual strains such as water hammer, weight of piping, settling, etc., and for this reason we keep the limit of the working pressure for which we recommend them down to a perfectly safe point.

## DIAMETER OF FLANGES. BOLT CIRCLE—SIZE AND NUMBER OF BOLTS

The dimensions of flanges of our Standard Flanged Fittings are the same as those recommended by the American Society of Mechanical Engineers.

## SPECIAL TEMPLATES

Flanged Fittings with special diameter of flanges and drilled to special templates, also special companion flanges, will be furnished to order and at an extra price.

## MERITS OF CAST IRON THREAD JOINTS

The question of the merits of Cast Iron Thread Joints is constantly arising in comparison with Shrink Flanged Joints.

Tests have been made to determine the holding value of cast iron threads. These tests show that with a thread of half the standard depth of thread the flange will break before the thread will strip.

On a 10 inch flange with five pipe threads engaged instead of ten, the usual number, the flange broke at 650 pounds, but the threads were intact. Other tests made with pipe threads of half the usual length give similar results, so that the ordinary cast iron screw joint is sufficiently strong for ANY STEAM PRESSURE CARRIED TO-DAY, in view of the fact that the more threads there are the more bearing there is to overcome by friction and the more grit there likely will be to obstruct the making of a good joint, so that for ordinary purposes it is a question whether the manufacturers have not been providing considerable more bearing and threads than is desirable.

## CAST IRON FITTINGS—FLANGED

SUITABLE FOR 125 POUNDS WORKING PRESSURE

## Elbows

90°



FIG. H-95

45°



FIG. H-96

FIG. H-95—90° ELBOWS

Size, Inches.	Center to Face, Inches.	Diameter of Flanges, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.
2	4½	6	\$4.75	\$5.75
2½	5	7	5.00	6.25
3	5½	7½	5.75	7.00
3½	6	8½	6.50	7.75
4	6½	9	7.25	9.25
4½	7	9¾	9.00	11.00
5	7½	10	9.75	11.75
6	8	11	12.00	14.00
7	8½	12½	16.00	19.75
8	9	13½	20.00	23.75
9	10	15	26.00	30.00
10	11	16	32.00	36.00
12	12	19	44.00	50.00
14	14	21	58.00	65.00
15	14½	22¼	72.00	80.00
16	15	23½	84.00	93.00
18	16½	25	108.00	118.00
20	18	27½	135.00	148.00
22	20	29½	160.00	180.00
24	20	32	200.00	220.00

FIG. H-96—45° ELBOWS

Size, Inches.	Center to Face, Inches.	Diameter of Flanges, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.
2	2½	6	\$5.25	\$6.25
2½	3	7	5.50	6.75
3	3	7½	6.25	7.50
3½	3½	8½	7.25	8.50
4	4	9	8.00	10.00
4½	4	9¾	10.00	12.00
5	4½	10	10.75	12.75
6	5	11	13.00	15.00
7	5½	12½	16.00	19.75
8	5½	13½	20.00	23.75
9	6	15	26.00	30.00
10	6½	16	32.00	36.00
12	7½	19	44.00	50.00
14	7½	21	58.00	65.00
15	8	22¼	72.00	80.00
16	8	23½	84.00	93.00
18	8½	25	108.00	118.00
20	9½	27½	135.00	148.00
22	10	29½	160.00	180.00
24	12	32	200.00	220.00

Flanged Fittings will always be furnished faced only, unless otherwise ordered.

## CAST IRON FITTINGS—FLANGED

SUITABLE FOR 125 POUNDS WORKING PRESSURE

## Tees

STRAIGHT



FIG. H-97

REDUCING



FIG. H-98

FIG. H-97—STRAIGHT

Size, Inches.	Center to Face, Inches.	Face to Face, Inches.	Diameter of Flanges Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.
2	4½	9	6	\$7.00	\$8.50
2½	5	10	7	7.25	9.00
3	5½	11	7½	8.25	10.00
3½	6	12	8½	9.50	11.25
4	6½	13	9	10.50	13.50
4½	7	14	9¼	13.00	16.00
5	7½	15	10	14.25	17.25
6	8	16	11	17.50	20.50
7	8½	17	12½	23.00	28.75
8	9	18	13½	29.00	34.75
9	10	20	15	38.00	44.00
10	11	22	16	46.50	52.50
12	12	24	19	64.00	73.00
14	14	28	21	84.00	95.00
15	14½	29	22¼	105.00	117.00
16	15	30	23½	122.00	135.00
18	16½	33	25	155.00	170.00
20	18	36	27½	195.00	215.00
22	20	40	29½	230.00	260.00
24	20	40	32	290.00	320.00

FIG. H-98—REDUCING

Size, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.
2	\$8.00	\$9.50
2½	8.25	10.00
3	9.50	11.25
3½	11.00	12.75
4	12.00	15.00
4½	15.00	18.00
5	16.25	19.25
6	20.00	23.00
7	26.50	32.00
8	33.50	39.00
9	43.50	50.00
10	53.50	60.00
12	74.00	83.00
14	96.00	107.00
15	120.00	132.00
16	140.00	153.00
18	178.00	193.00
20	225.00	245.00
22	265.00	295.00
24	335.00	365.00

Flanged Fittings will always be furnished faced only, unless otherwise ordered.

## CAST IRON FITTINGS

## LIST OF SIZES

## STANDARD

## FLANGED REDUCING TEES

## USUALLY CARRIED IN STOCK

3 x 3 x 2½	6 x 5 x 3	12 x 12 x 10
4 x 4 x 3	7 x 7 x 6	12 x 12 x 8
4 x 4 x 2½	7 x 7 x 5	12 x 12 x 7
4 x 4 x 2	7 x 7 x 4	12 x 12 x 6
4 x 3 x 4	7 x 6 x 5	12 x 12 x 5
5 x 5 x 4	8 x 8 x 6	12 x 10 x 12
5 x 5 x 3	8 x 8 x 5	12 x 8 x 12
5 x 5 x 2½	8 x 8 x 4	12 x 10 x 10
5 x 4 x 5	8 x 6 x 8	14 x 14 x 12
5 x 3 x 3	8 x 6 x 6	14 x 14 x 10
6 x 6 x 5	6 x 6 x 8	14 x 14 x 8
6 x 6 x 4	10 x 10 x 8	14 x 14 x 7
6 x 6 x 3½	10 x 10 x 6	14 x 14 x 6
6 x 6 x 3	10 x 10 x 5	14 x 10 x 10
6 x 6 x 2½	10 x 10 x 4	16 x 16 x 12
6 x 6 x 2	10 x 8 x 10	16 x 16 x 10
6 x 5 x 6	10 x 6 x 10	16 x 16 x 8
6 x 4 x 6	10 x 8 x 8	12 x 12 x 16
6 x 5 x 5	8 x 8 x 10	

The increased demand for flanged fittings is such that we have concluded to carry the above line of reducing fittings in stock.

These, with our special reducing companion flanges, enable us to furnish from stock about every variety of fittings required, except special angles, offsets, etc.

Reducing ribbed flanges are furnished to order. These flanges will always be the same thickness as the regular companion flanges of corresponding outside diameter.

The flanges are always drilled to the template corresponding to the outside diameter unless otherwise ordered.

Customers who desire fittings reduced in this manner will please specify "reduce by flanges if necessary."



## CAST IRON FITTINGS—FLANGED

SUITABLE FOR 125 POUNDS WORKING PRESSURE

CROSS



FIG. H-99

STRAIGHT					REDUCING		
Size, Inches.	Face to Face, Inches.	Diameter of Flanges, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.	Size, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.
2	9	6	\$9.50	\$11.50	2	\$11.00	\$13.00
2½	10	7	10.00	12.50	2½	11.50	14.00
3	11	7½	11.50	14.00	3	13.25	15.75
3½	12	8½	13.00	15.50	3½	15.00	17.50
4	13	9	14.50	18.50	4	16.75	20.75
4½	14	9¼	18.00	22.00	4½	20.75	25.00
5	15	10	19.50	23.50	5	22.50	26.50
6	16	11	24.00	28.00	6	27.50	31.50
7	17	12½	32.00	39.50	7	37.00	45.00
8	18	13½	40.00	47.50	8	46.00	53.50
9	20	15	52.00	60.00	9	60.00	68.00
10	22	16	64.00	72.00	10	74.00	82.00
12	24	19	88.00	100.00	12	100.00	112.00
14	28	21	116.00	130.00	14	132.00	146.00
15	29	22¼	144.00	160.00	15	165.00	180.00
16	30	23½	168.00	186.00	16	193.00	210.00
18	33	25	216.00	236.00	18	248.00	268.00
20	36	27½	270.00	296.00	20	310.00	335.00
22	40	29½	320.00	360.00	22	370.00	410.00
24	40	32	400.00	440.00	24	460.00	500.00

Flanged Fittings will always be furnished faced only, unless otherwise ordered.

## CAST IRON FITTINGS—FLANGED

SUITABLE FOR 125 POUNDS WORKING PRESSURE

## Y Branch



FIG. H-100

STRAIGHT				REDUCING		
Size, Inches.	Diameter of Flanges, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.	Size, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.
4	9	\$14.50	\$18.50	4	\$16.75	\$20.75
4½	9¼	18.00	22.00	4½	20.75	25.00
5	10	19.50	23.50	5	22.50	26.50
6	11	24.00	28.00	6	27.50	31.50
7	12½	32.00	39.50	7	37.00	45.00
8	13½	40.00	47.50	8	46.00	53.50
9	15	52.00	60.00	9	60.00	68.00
10	16	64.00	72.00	10	74.00	82.00
12	19	88.00	100.00	12	100.00	112.00
14	21	116.00	130.00	14	132.00	146.00
15	22¼	144.00	160.00	15	165.00	180.00
16	23½	168.00	186.00	16	193.00	210.00

Larger sizes made to order. Prices on application.

Flanged Fittings will always be furnished faced only, unless otherwise ordered.

## CAST IRON FITTINGS—FLANGED

SUITABLE FOR 125 POUNDS WORKING PRESSURE

Reducing Taper Elbow



FIG. H-101

Taper Reducer



FIG. H-102

Size, Inches.	Center to Face, Inches.	Diameter of Flanges, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.	Size, Inches.	Face to Face, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.
$3\frac{1}{2}$ x $2\frac{1}{2}$	6	$8\frac{1}{2}$ x 7	\$13.00	\$15.50				
$3\frac{1}{2}$ x 3	6	$8\frac{1}{2}$ x $7\frac{1}{2}$	13.00	15.50				
4 x 2	$6\frac{1}{2}$	9 x 6	14.50	18.50				
4 x $2\frac{1}{2}$	$6\frac{1}{2}$	9 x 7	14.50	18.50				
4 x 3	$6\frac{1}{2}$	9 x $7\frac{1}{2}$	14.50	18.50				
5 x $2\frac{1}{2}$	$7\frac{1}{2}$	10 x 7	19.50	23.50				
5 x 3	$7\frac{1}{2}$	10 x $7\frac{1}{2}$	19.50	23.50				
5 x 4	$7\frac{1}{2}$	10 x 9	19.50	23.50				
6 x 3	8	11 x $7\frac{1}{2}$	24.00	28.00				
6 x $3\frac{1}{2}$	8	11 x $8\frac{1}{2}$	24.00	28.00				
6 x 4	8	11 x 9	24.00	28.00				
6 x 5	8	11 x 10	24.00	28.00				
7 x 5	$8\frac{1}{2}$	$12\frac{1}{2}$ x 10	32.00	39.50				
7 x 6	$8\frac{1}{2}$	$12\frac{1}{2}$ x 11	32.00	39.50				
8 x 4	9	$13\frac{1}{2}$ x 9	40.00	47.50				
8 x 5	9	$13\frac{1}{2}$ x 10	40.00	47.50				
8 x 6	9	$13\frac{1}{2}$ x 11	40.00	47.50				
10 x 5	11	16 x 10	64.00	72.00				
10 x 6	11	16 x 11	64.00	72.00				
10 x 8	11	16 x $13\frac{1}{2}$	64.00	72.00				
12 x 8	12	19 x $13\frac{1}{2}$	88.00	100.00				
12 x 10	12	19 x 16	88.00	100.00				
14 x 10	14	21 x 16	116.00	130.00				
14 x 12	14	21 x 19	116.00	130.00				
15 x 10	$14\frac{1}{2}$	$22\frac{1}{4}$ x 16	144.00	160.00				
15 x 12	$14\frac{1}{2}$	$22\frac{1}{4}$ x 19	144.00	160.00				
16 x 12	15	$23\frac{1}{2}$ x 19	168.00	186.00				
16 x 15	15	$23\frac{1}{2}$ x $22\frac{1}{4}$	168.00	186.00				

Owing to the variation in lengths and reductions of Flanged Taper Reducers, we are unable to publish dimensions or prices.

Flanged Taper Reducing Elbows not listed above will be made to order at a special price.

Flanged Fittings will always be furnished faced only, unless otherwise ordered.

## CAST IRON FITTINGS—FLANGED

## Base Fittings

SUITABLE FOR 125 POUNDS WORKING PRESSURE

ELBOW



FIG. H-103

Size, Inches.	Center to Face, Inches.	Center to Base, Inches.	Diameter of Flanges, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.
4	6 $\frac{1}{2}$	6 $\frac{1}{2}$	9	\$12.00	\$15.00
4 $\frac{1}{2}$	7	6 $\frac{3}{4}$	9 $\frac{1}{4}$	15.00	18.00
5	7 $\frac{1}{2}$	7	10	16.25	19.25
6	8	7 $\frac{1}{2}$	11	20.00	23.00
7	8 $\frac{1}{2}$	8 $\frac{1}{4}$	12 $\frac{1}{2}$	26.50	32.00
8	9	8 $\frac{3}{4}$	13 $\frac{1}{2}$	33.50	39.00
9	10	9 $\frac{1}{2}$	15	43.50	50.00
10	11	10	16	53.50	60.00
12	12	10 $\frac{1}{2}$	19	74.00	83.00
14	14	13 $\frac{1}{2}$	21	96.00	107.00
15	14 $\frac{1}{2}$	14	22 $\frac{1}{4}$	120.00	132.00
16	15	14 $\frac{3}{4}$	23 $\frac{1}{2}$	140.00	153.00

Long Radius Elbows of different dimensions from above made to order at a special price.

TEE



FIG. H-104

Flanged Base Tees made to order. Prices on application.

We furnish the above style of Fittings in all sizes, both SCREWED and FLANGED. They will be found very convenient where it is necessary to support a long vertical line of pipe on a pier of masonry or other foundation.

## STANDARD FLANGES

## For Flanged Fittings and Valves

SUITABLE FOR 125 POUNDS WORKING PRESSURE

## FACED AND DRILLED

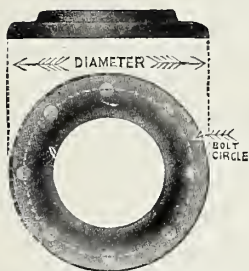


FIG. H-105

## BLIND FLANGES, FACED



16 inch, O. D. and Smaller

FIG. H-106



19 inch, O. D. and Larger

FIG. H-107

FIG. H-105—THREADED FLANGES

Size, Inches.	Faced, Each.	Faced and Drilled, Each.	Price of Bolts per Set for one Joint.
1 x 4	\$1.00	\$1.25	.25
1 $\frac{1}{4}$ x 4 $\frac{1}{2}$	1.05	1.35	.25
1 $\frac{1}{2}$ x 5	1.10	1.40	.25
2 x 6	1.20	1.50	.25
2 $\frac{1}{2}$ x 7	1.40	2.00	.25
3 x 7 $\frac{1}{2}$	1.60	2.25	.25
3 $\frac{1}{2}$ x 8 $\frac{1}{2}$	1.80	2.50	.25
4 x 9	2.15	3.00	.35
4 $\frac{1}{2}$ x 9 $\frac{1}{4}$	2.50	3.35	.70
5 x 10	2.80	3.65	.70
6 x 11	3.20	4.00	.70
7 x 12 $\frac{1}{2}$	4.35	5.75	.75
8 x 13 $\frac{1}{2}$	5.00	6.50	.75
9 x 15	6.75	8.25	1.15
10 x 16	7.75	9.25	1.70
12 x 19	10.50	12.50	1.70
14 x 21	13.75	16.00	2.50
15 x 21	18.00	21.00	2.50
15 x 22 $\frac{1}{4}$	18.00	21.00	3.30
16 x 23 $\frac{1}{2}$	22.50	26.00	3.30
18 x 25	27.50	31.00	5.00
20 x 27 $\frac{1}{2}$	30.00	34.00	6.20
22 x 29 $\frac{1}{2}$	33.75	39.00	8.40
24 x 32	41.00	46.00	8.40

FIGS. H-106 &amp; H-107—BLIND FLANGES

Size, Inches.	Faced, Each.	Faced and Drilled, Each.
2 x 6	\$1.40	\$1.70
2 $\frac{1}{2}$ x 7	1.60	2.20
3 x 7 $\frac{1}{2}$	1.85	2.50
3 $\frac{1}{2}$ x 8 $\frac{1}{2}$	2.10	2.80
4 x 9	2.50	3.35
4 $\frac{1}{2}$ x 9 $\frac{1}{4}$	2.90	3.75
5 x 10	3.25	4.10
6 x 11	3.70	4.50
7 x 12 $\frac{1}{2}$	5.00	6.40
8 x 13 $\frac{1}{2}$	5.75	7.25
9 x 15	7.75	9.25
10 x 16	9.00	10.60
12 x 19	14.00	16.00
14 x 21	17.50	19.75
15 x 21	22.50	25.50
15 x 22 $\frac{1}{4}$	22.50	25.50
16 x 23 $\frac{1}{2}$	28.00	31.50
18 x 25	33.00	36.50
20 x 27 $\frac{1}{2}$	36.00	40.00
22 x 29 $\frac{1}{2}$	41.00	46.00
24 x 32	50.00	55.00
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Flanges furnished faced only, unless otherwise specified



## CAST IRON FITTINGS

## Reducing Companion Flanges

WITH RIBS FOR STANDARD FLANGED FITTINGS

SUITABLE FOR 125 POUNDS WORKING PRESSURE

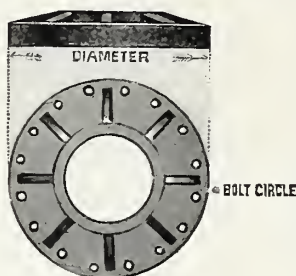


FIG. H-108

Size, Inches.	Faced, Each.	Faced and Drilled, Each.	Size, Inches.	Faced, Each.	Faced and Drilled, Each.	Size, Inches.	Faced, Each.	Faced and Drilled, Each.
2 x 7	\$2.10	\$3.00	5x12 $\frac{1}{2}$	\$6.50	\$8.50	14x22 $\frac{1}{4}$	\$27.00	\$31.50
2 x 7 $\frac{1}{2}$	2.40	3.35	6x12 $\frac{1}{2}$	6.50	8.50	10x23 $\frac{1}{2}$	34.00	39.00
2 $\frac{1}{2}$ x 7 $\frac{1}{2}$	2.40	3.35	5x13 $\frac{1}{2}$	7.50	9.75	12x23 $\frac{1}{2}$	34.00	39.00
2 x 8 $\frac{1}{2}$	2.70	3.75	6x13 $\frac{1}{2}$	7.50	9.75	14x23 $\frac{1}{2}$	34.00	39.00
2 $\frac{1}{2}$ x 8 $\frac{1}{2}$	2.70	3.75	7x13 $\frac{1}{2}$	7.50	9.75	15x23 $\frac{1}{2}$	34.00	39.00
3 x 8 $\frac{1}{2}$	2.70	3.75	6x15	10.00	12.25	12x25	41.00	46.00
2 $\frac{1}{2}$ x 9	3.25	4.50	7x15	10.00	12.25	14x25	41.00	46.00
3 x 9	3.25	4.50	8x15	10.00	12.25	15x25	41.00	46.00
3 $\frac{1}{2}$ x 9	3.25	4.50	7x16	11.50	14.00	16x25	41.00	46.00
3 x 9 $\frac{1}{4}$	3.75	5.00	8x16	11.50	14.00	14x27 $\frac{1}{2}$	45.00	51.00
3 $\frac{1}{2}$ x 9 $\frac{1}{4}$	3.75	5.00	9x16	11.50	14.00	15x27 $\frac{1}{2}$	45.00	51.00
4 x 9 $\frac{1}{4}$	3.75	5.00	8x19	15.75	18.75	16x27 $\frac{1}{2}$	45.00	51.00
3 $\frac{1}{2}$ x10	4.25	5.50	9x19	15.75	18.75	18x27 $\frac{1}{2}$	45.00	51.00
4 x10	4.25	5.50	10x19	15.75	18.75	16x29 $\frac{1}{2}$	50.00	58.50
4 $\frac{1}{2}$ x10	4.25	5.50	9x21	20.00	24.00	18x29 $\frac{1}{2}$	50.00	58.50
4 x11	4.75	6.00	10x21	20.00	24.00	20x29 $\frac{1}{2}$	50.00	58.50
4 $\frac{1}{2}$ x11	4.75	6.00	12x21	20.00	24.00	18x32	61.00	70.00
5 x11	4.75	6.00	10x22 $\frac{1}{4}$	27.00	31.50	20x32	61.00	70.00
4 $\frac{1}{2}$ x12 $\frac{1}{2}$	6.50	8.50	12x22 $\frac{1}{4}$	27.00	31.50			

## Reducing Flanged Fittings

It is not possible to carry in stock a line of Reducing Flanged Fittings sufficiently large to meet all demands promptly.

These Flanges, used in connection with Straight or Reducing Fittings carried in stock, enable us to fill all orders for reduced sizes very promptly.

CUSTOMERS WHO DESIRE FITTINGS REDUCED IN THIS MANNER WILL PLEASE SPECIFY "REDUCE BY FLANGES IF NECESSARY."

These Flanges will always be the same thickness as the regular Companion Flanges of corresponding outside diameter.

The Flanges are always drilled to the template corresponding to the outside diameter unless otherwise ordered.

## CAST IRON FITTINGS

## Standard Diameter of Flanges and Templates for Drilling

STANDARD AND LOW PRESSURE FLANGED VALVES, FLANGED  
FITTINGS AND FLANGES

## SUITABLE FOR 125 POUNDS WORKING PRESSURE

Size, Inches	Diameter of Flanges, Inches	Bolt Circle, Inches	Number of Bolts	Size of Bolts	Length of Bolts for Standard	Length of Bolts for Low Pressure
1	4	3	4	$\frac{7}{16}$	$1\frac{1}{2}$	-----
$1\frac{1}{4}$	$4\frac{1}{2}$	$3\frac{3}{8}$	4	$\frac{7}{16}$	$1\frac{1}{2}$	-----
$1\frac{1}{2}$	5	$3\frac{7}{8}$	4	$\frac{1}{2}$	$1\frac{3}{4}$	-----
2	6	$4\frac{3}{4}$	4	$\frac{5}{8}$	2	-----
$2\frac{1}{2}$	7	$5\frac{1}{2}$	4	$\frac{5}{8}$	$2\frac{1}{4}$	-----
3	$7\frac{1}{2}$	6	4	$\frac{5}{8}$	$2\frac{1}{2}$	-----
$3\frac{1}{2}$	$8\frac{1}{2}$	7	4	$\frac{5}{8}$	$2\frac{1}{2}$	-----
4	9	$7\frac{1}{2}$	4	$\frac{3}{4}$	$2\frac{3}{4}$	-----
$4\frac{1}{2}$	$9\frac{1}{4}$	$7\frac{3}{4}$	8	$\frac{3}{4}$	3	-----
5	10	$8\frac{1}{2}$	8	$\frac{3}{4}$	3	-----
6	11	$9\frac{1}{2}$	8	$\frac{3}{4}$	3	-----
7	$12\frac{1}{2}$	$10\frac{3}{4}$	8	$\frac{3}{4}$	$3\frac{1}{4}$	-----
8	$13\frac{1}{2}$	$11\frac{3}{4}$	8	$\frac{3}{4}$	$3\frac{1}{2}$	-----
9	15	$13\frac{1}{4}$	12	$\frac{3}{4}$	$3\frac{1}{2}$	-----
10	16	$14\frac{1}{4}$	12	$\frac{7}{8}$	$3\frac{3}{4}$	-----
12	19	17	12	$\frac{7}{8}$	$3\frac{3}{4}$	$2\frac{3}{4}$
14	21	$18\frac{3}{4}$	12	1	$4\frac{1}{4}$	3
15	$22\frac{1}{4}$	20	16	1	$4\frac{1}{4}$	3
16	$23\frac{1}{2}$	$21\frac{1}{4}$	16	1	$4\frac{1}{4}$	$3\frac{1}{2}$
18	25	$22\frac{3}{4}$	16	$1\frac{1}{8}$	$4\frac{3}{4}$	$3\frac{1}{2}$
20	$27\frac{1}{2}$	25	20	$1\frac{1}{8}$	5	$3\frac{3}{4}$
22	$29\frac{1}{2}$	$27\frac{1}{4}$	20	$1\frac{1}{4}$	$5\frac{1}{2}$	4
24	32	$29\frac{1}{2}$	20	$1\frac{1}{4}$	$5\frac{1}{2}$	$4\frac{1}{4}$
26	$34\frac{1}{4}$	$31\frac{3}{4}$	24	$1\frac{1}{4}$	$5\frac{3}{4}$	$4\frac{1}{4}$
28	$36\frac{1}{2}$	34	28	$1\frac{1}{4}$	6	$4\frac{1}{2}$
30	$38\frac{3}{4}$	36	28	$1\frac{3}{8}$	$6\frac{1}{4}$	$4\frac{3}{4}$
36	$45\frac{3}{4}$	$42\frac{3}{4}$	32	$1\frac{3}{8}$	$6\frac{1}{2}$	$5\frac{1}{4}$

NOTE.—Flanges, Flanged Fittings, Valves etc., are drilled in multiples of four, so that fittings may be made to face in any quarter and holes straddle center-line.

We will make Fittings, Valves, etc., drilled to any other template desired, but would advise that the Standard Template be used.

## CAST IRON FITTINGS

## TABLE OF DIMENSIONS

## Standard Flanges

SUITABLE FOR 125 POUNDS WORKING PRESSURE

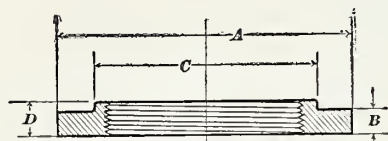


FIG. H-109

2 in. to 20 in. Screwed.

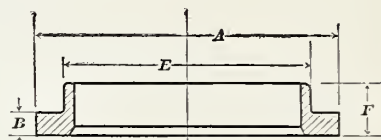


FIG. H-110

22 in. and 24 in. Shrink.

Size, inches		1	1¼	1½	2	2½	3	3½	4
Diameter of Flange	A	4	4½	5	6	7	7½	8½	9
Thickness of Flange	B	⅞	½	⅜	⅝	⅞	¾	⅞	⅞
Diameter of Hub	C	1⅝	2⅝	2⅝	3⅝	3⅝	4⅝	4⅝	5⅝
Length of Thread	D	⅞	¾	⅞	1	1⅞	1⅝	1⅝	1⅝
Diameter of Hub	E								
Length of Hub	F								
Size, inches		4½	5	6	7	8	9	10	12
Diameter of Flange	A	9¼	10	11	12½	13½	15	16	19
Thickness of Flange	B	⅝	⅝	1	1⅞	1⅝	1⅝	1⅝	1¾
Diameter of Hub	C	5⅝	6⅞	7⅞	8⅝	9⅞	10⅝	11⅝	14⅝
Length of Thread	D	1¼	1⅝	1⅞	1½	1⅝	1¾	1⅞	2⅞
Diameter of Hub	E								
Length of Hub	F								
Size, inches		14	15	16	18	20	22	24	
Diameter of Flange	A	21	22¼	23½	25	27½	29½	32	
Thickness of Flange	B	1⅝	1⅝	1⅞	1⅝	1⅞	1⅞	1⅞	
Diameter of Hub	C	16⅞	16⅞	17½	19⅝	21¾			
Length of Thread	D	2⅞	2⅝	2⅞	2⅝	2¾			
Diameter of Hub	E						24¼	26⅝	
Length of Hub	F						4¼	4½	

## CAST IRON FITTINGS

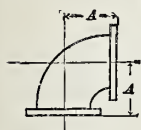
Table of Dimensions No. 1. Standard Flanged Fittings  
SUITABLE FOR 125 POUNDS WORKING PRESSURE

FIG. H-111

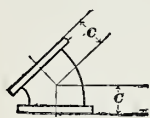


FIG. H-112

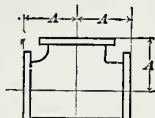


FIG. H-113

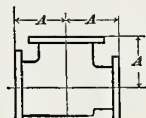


FIG. H-114

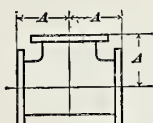


FIG. H-115

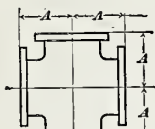


FIG. H-116

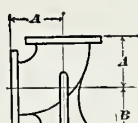


FIG. H-117

Reducing Fittings not covered in this Table will be found in Table No. 2

Size of Run	In.	2	2½	3	3½	4	4½	5	6	7	8	9
Outlets	In.	All Reducing Fittings 2 in. to 9 in. Inclusive are the Same Dimensions as Straight Fittings Center to Face										
Face to Face	AA	9	10	11	12	13	14	15	16	17	18	20
Center to Face	A	4½	5	5½	6	6½	7	7½	8	8½	9	10
Center to Face of 45° Ells	C	2½	3	3	3½	4	4	4½	5	5½	5½	6
Center to Base of Base Ells	B	5	5½	5¾	6¼	6½	6¾	7	7½	8¼	8¾	9½
Diameter of Flanges		6	7	7¾	8½	9	9¼	10	11	12½	13½	15
Thickness of Flanges		⅝	11/16	¾	1¼	1½	1½	1½	1	1 1/16	1 1/8	1 1/8
Size of Run	In.	10	12	14	15	16						
Outlets	In.	7 and larger	9 and larger	10 and larger	10 and larger	12 and larger						
Face to Face	AA	22	24	28	29	30						
Center to Face	A	11	12	14	14½	15						
Center to Face of 45° Ells	C	6½	7½	7½	8	8						
Center to Base of Base Ells	B	10	10½	13½	14	14¾						
Diameter of Flanges		16	19	21	22¾	23½						
Thickness of Flanges		1 3/16	1¼	1¾	1¾	1 7/16						

## Tees Increasing on the Outlet

Tees having outlets larger than the run will be the same length center to face of all openings as a Tee with all openings of the size of the outlet.

## EXAMPLE

A 12 x 12 x 16 inch Tee will be governed by the dimensions of the 16 inch Tee, namely, 15 inches center to face of all openings, and 30 inches face to face.

The face to face dimensions of Flanged Fittings are not changed by a reduction on the run.

## CAST IRON FITTINGS

Table of Dimensions No. 2. Standard Flanged Tees and Crosses

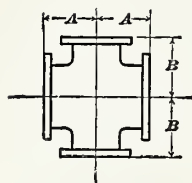


FIG. H-118

SUITABLE FOR 125 POUNDS WORKING PRESSURE

Having Outlet Smaller than shown on Table No. 1.

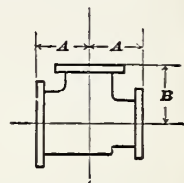


FIG. H-119

Size of Run	Inches	10	12	14	15	16
Outlets	Inches	6 and smaller	8 and smaller	9 and smaller	9 and smaller	10 and smaller
Face to Face	AA	18	20	22	23	24
Center to Face	A	9	10	11	11½	12
Center to Face	B	9½	11	13	13½	14
Diameter of Flanges		16	19	21	22¼	23½
Thickness of Flanges		1⅜	1¼	1⅜	1⅜	1⅞

The face to face dimensions of Flanged Fittings are not changed by a reduction on the run.

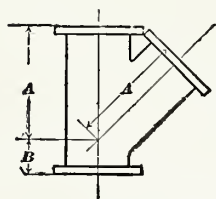


FIG. H-120

Table of Dimensions. Standard Flanged Y Branches

SUITABLE FOR 125 POUNDS WORKING PRESSURE

Size	Inches	2	2½	3	3½	4	4½	5	6	7
Face to Face	In.	10½	12	13	14½	15	15½	17	18	20½
Center to Face, A	In.	8	9½	10	11½	12	12½	13½	14½	16½
Center to Face, B	In.	2½	2½	3	3	3	3	3½	3½	4
Diam. of Flanges	In.	6	7	7½	8½	9	9¼	10	11	12½
Thickness of Flanges	In.	⅝	11⁄16	¾	13⁄16	15⁄16	15⁄16	15⁄16	1	1⅞
Size	Inches	8	9	10	12	14	15	16		
Face to Face	In.	22	24	25½	30	33	34½	36½		
Center to Face, A	In.	17½	19½	20½	24½	27	28½	30		
Center to Face, B	In.	4½	4½	5	5½	6	6	6½		
Diam. of Flanges	In.	13½	15	16	19	21	22¼	23½		
Thickness of Flanges	In.	1¼	1¼	1¾	1¼	1¾	1¾	1¾		

Reducing Y Branches being made to order, we are unable to give dimensions.



## CAST IRON FITTINGS—FLANGED

## Special Patterns

SUITABLE FOR 125 POUNDS WORKING PRESSURE

SADDLE NOZZLE



FIG. H-121

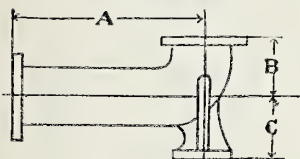
EXTENSION ELBOW  
WITH BASE

FIG. H-122

OFFSET

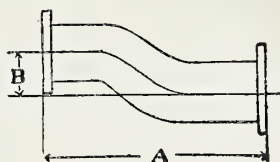


FIG. H-123

DOUBLE OUTLET TEE

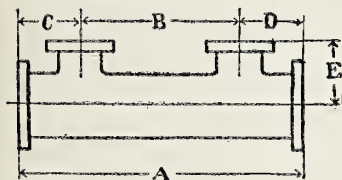


FIG. H-124

RETURN BEND

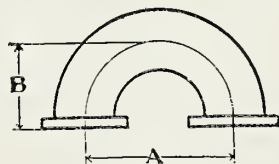


FIG. H-125

The Special Flanged Fittings as illustrated above are a few of the many that we are called upon to supply.

We have exceptional facilities for supplying Special Fittings of any required design. Estimates promptly furnished.

In ordering or asking for estimates on Special Fittings, it is necessary to give measurements as shown in the illustrations above.

## CAST IRON FITTINGS

## Extra Long Turn Elbows—Flanged

## STANDARD AND EXTRA HEAVY



FIG. H-123

## SUITABLE FOR 125 POUNDS WORKING PRESSURE

Size, Inches.	Center to Face, Inches.	Radius, Inches.	Diameter of Flanges, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.
4	13 $\frac{3}{4}$	12	9	14.50	18.50
5	14 $\frac{1}{2}$	14	10	19.50	23.50
6	14 $\frac{1}{2}$	14	11	24.00	28.00
7	17 $\frac{1}{2}$	16	12 $\frac{1}{2}$	32.00	39.50
8	15 $\frac{1}{2}$	14 $\frac{1}{2}$	13 $\frac{1}{2}$	40.00	47.50
9	17 $\frac{1}{2}$	16 $\frac{1}{2}$	15	52.00	60.00
10	18	17	16	64.00	72.00
12	24	22 $\frac{1}{2}$	19	110.00	120.00
14	33	32	21	160.00	175.00
15	33	32	22 $\frac{1}{4}$	180.00	200.00
16	33	32	23 $\frac{1}{2}$	200.00	220.00

## SUITABLE FOR 250 POUNDS WORKING PRESSURE

Size, Inches.	Center to Face, Inches.	Radius, Inches.	Diameter of Flanges, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.
4	14	12	10	14.50	18.50
5	15	14	11	19.50	23.50
6	16	14	12 $\frac{1}{2}$	24.00	28.00
7	17 $\frac{1}{2}$	16	14	32.00	39.50
8	18	16	15	40.00	47.50
9	18	16	16	52.00	60.00
10	18	16	17 $\frac{1}{2}$	64.00	72.00
12	26	24	20	110.00	120.00
14	33	32	22 $\frac{1}{2}$	160.00	175.00
15	33	32	23 $\frac{1}{2}$	180.00	200.00
16	33	32	25	200.00	220.00

Will be furnished faced only, unless otherwise ordered.

Long Radius Elbows of different dimensions from above made to order at a special price.

## CAST IRON FITTINGS

## Standard Long Turn—Flanged

ELBOW



FIG. H-127

DOUBLE BRANCH ELBOW



FIG. H-128

Size, Inches.	Center to Face, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.	Size, Inches.	Center to Face, Inches.	Face to Face, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.
2	4	\$5.25	\$6.25	2	4	8	\$8.00	\$9.50
2½	4½	5.50	6.75	2½	4½	9	8.25	10.00
3	5	6.50	7.75	3	5	10	9.50	11.25
3½	5½	7.50	8.75	3½	5½	11	11.00	12.75
4	6¼	8.00	10.00	4	6¼	12½	12.00	15.00
4½	6¾	10.00	12.00	4½	6¾	13½	15.00	18.00
5	7½	11.00	13.00	5	7½	15	16.25	19.25
6	8¾	13.25	15.50	6	8¾	17½	20.00	23.00
7	9⅞	17.50	21.00	7	9⅞	19¾	26.50	32.00
8	11¼	22.00	26.00	8	11¼	22½	33.50	39.00
9	12¾	29.00	33.00	9	12¾	24½	43.50	50.00
10	13½	36.00	40.00	10	13½	27	53.50	60.00
12	15	49.00	55.00	12	15	30	74.00	83.00
14	16½	64.00	71.00	14	16½	33	96.00	107.00
15	17¾	80.00	88.00	15	17¾	35½	120.00	132.00
16	18½	94.00	103.00	16	18½	37	140.00	153.00
18	20½	120.00	130.00	18	20½	41	178.00	193.00
20	22¾	150.00	164.00	20	22¾	45½	225.00	245.00
22	24¾	180.00	200.00	22	24¾	49½	265.00	295.00
24	26½	225.00	245.00	24	26½	53	335.00	365.00

Will be furnished faced only, unless otherwise ordered.

## CAST IRON FITTINGS

## Standard Long Turn—Flanged

SINGLE SWEEP TEE



FIG. H-129

DOUBLE SWEEP TEE



FIG. H-130

Size, Inches.	Center to Face, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.
2	4	\$8.00	\$9.50
2½	4½	8.25	10.00
3	5	9.50	11.25
3½	5½	11.00	12.75
4	6¼	12.00	15.00
4½	6¾	15.00	18.00
5	7½	16.25	19.25
6	8¾	20.00	23.00
7	9⅞	26.50	32.00
8	11¼	33.50	39.00
9	12¼	43.50	50.00
10	13½	53.50	60.00
12	15	74.00	83.00
14	16½	96.00	107.00
15	17¾	120.00	132.00
16	18½	140.00	153.00
18	20½	178.00	193.00
20	22¾	225.00	245.00
22	24¾	265.00	295.00
24	26½	335.00	365.00

Size, Inches.	Center to Face, Inches.	With Faced Flanges, Each.	With Faced and Drilled Flanges, Each.
2	4	\$8.00	\$9.50
2½	4½	8.25	10.00
3	5	9.50	11.25
3½	5½	11.00	12.75
4	6¼	12.00	15.00
4½	6¾	15.00	18.00
5	7½	16.25	19.25
6	8¾	20.00	23.00
7	9⅞	26.50	32.00
8	11¼	33.50	39.00
9	12¼	43.50	50.00
10	13½	53.50	60.00
12	15	74.00	83.00
14	16½	96.00	107.00
15	17¾	120.00	132.00
16	18½	140.00	153.00
18	20½	178.00	193.00
20	22¾	225.00	245.00
22	24¾	265.00	295.00
24	26½	335.00	365.00

Will be furnished faced only, unless otherwise ordered.

# CAST IRON FITTINGS

## Standard Long Turn—Flanged

CROSS



FIG. H-131

Size, Inches.	Center to Face, Inches.	With Faced Flanges, each.	With Faced and Drilled Flanges, each.
2	4	\$11.00	\$13.00
2½	4½	12.50	15.00
3	5	15.00	17.50
3½	5½	17.50	20.00
4	6¼	20.00	24.00
4½	6¾	24.00	28.00
5	7½	27.00	31.00
6	8¾	35.00	39.00
7	9⅞	45.00	52.00
8	11¼	56.00	64.00
9	12¼	70.00	78.00
10	13½	84.00	92.00
12	15	115.00	127.00
14	16½	150.00	164.00
15	17¾	190.00	205.00
16	18½	220.00	237.00
18	20½	275.00	295.00
20	22¾	350.00	375.00
22	24¾	420.00	460.00
24	26½	520.00	560.00

Will be furnished faced only, unless otherwise ordered.



CAST IRON FITTINGS—DRAINAGE

Elbows

90° LONG TURN



FIG. H-132

90° SHORT TURN



FIG. H-133

45° LONG TURN



FIG. H-134

45° SHORT TURN



FIG. H-136

22½°



FIG. H-135

60°



FIG. H-137

5⅝°



FIG. H-138

11¼°



FIG. H-139

Size, inches	1¼	1½	2	3	4	5	6	7	8	10
Fig. H-132—90° Long Turn	.50	.60	.70	1.30	2.00	3.60	5.20	8.50	10.00	12.00
Fig. H-133—90° Short Turn	.45	.50	.60	1.10	1.70	2.60	3.50	6.00	7.00	9.00
Fig. H-134—45° Long Turn	.60	.70	.80	1.45	2.25	4.00	5.75	9.50	11.00	13.50
Fig. H-135—22½°	.40	.50	.60	1.10	1.70	2.60	3.50	6.00	7.00	9.00
Fig. H-136—45° Short Turn	.40	.50	.60	1.10	1.70	2.60	3.50	6.00	7.00	9.00
Fig. H-137—60°	.45	.50	.60	1.10	1.70	2.60	3.50	6.00	7.00	9.00
Fig. H-138—5⅝°	.40	.50	.60	1.10	1.70	2.60	3.50	6.00	7.00	9.00
Fig. H-139—11¼°	.40	.50	.60	1.10	1.70	2.60	3.50	6.00	7.00	9.00

Galvanized Fittings, double above list.

## CAST IRON FITTINGS—DRAINAGE

## Tees

PLAIN TEE



FIG. H-140

BASIN TEE



FIG. H-141

Size, inches	1½	2	2 x 1½	3	3 x 2	4	4 x 2	4 x 3	5	5 x 2
Fig. H-140—Each	.75	.90	.90	1.40	1.40	2.30	2.30	2.30	4.00	4.00
Fig. H-141—Each	\$1.25	1.35	1.35	---	---	---	---	---	---	---

## Increaser



FIG. H-142

Size, inches	3 x 2	4 x 2	4 x 3	5 x 2	5 x 3	5 x 4
Fig. H-142—Each	\$1.00	1.50	1.50	2.00	2.00	2.00
Size, inches	6 x 4	6 x 5	7 x 6	8 x 6	8 x 7	
Fig. H-142—Each	\$3.00	3.00	4.00	5.00	5.00	

## 45° Y Branch

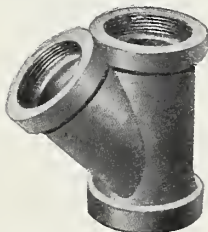


FIG. H-143

Size, inches	1½	2	3	4	5	6	7	8	10
45°, Fig. H-143	.80	1.00	1.70	2.60	3.50	5.50	12.00	15.00	21.00
45°, Double, not illustrated	\$1.30	2.20	3.10	4.25	6.50	15.00	18.00	25.00	

Galvanized Fittings, double above list.

CAST IRON FITTINGS—DRAINAGE

Elbows

90° ELBOW WITH CLEAN-OUT



FIG. H-144

90° BASE ELBOW WITH CLEAN-OUT



FIG. H-145

Size, inches	2	3	4	5	6
Fig. H-144—Each	\$1.50	2.50	3.50	5.50	7.50
Fig. H-145—Each	2.00	3.00	4.00	6.75	9.00

90° BASE ELBOW WITH CLEAN-OUT, TO  
CONNECT CAST IRON PIPE  
TO WROUGHT PIPE



FIG. H-146

45° ELBOW WITH SHOE



FIG. H-147

Size, inches	2	3	4 x 3	4	5 x 4	5
Fig. H-146—Each	\$3.50	3.50	4.50	4.50	7.75	7.75
Size, inches	6 x 4	6 x 5	6	8 x 6	8	
Fig. H-146—Each	\$10.00	10.00	10.00	15.00	15.00	

Size, inches	2	3	4	5	6
Fig. H-147—Each	.90	1.50	2.20	3.25	4.25

Galvanized Fittings, double above lists.

## CAST IRON FITTINGS—DRAINAGE

## Closet Tees

INLETS BOTH SIDES

INLETS BOTH SIDES AND TOP



FIG. H-148



FIG. H-149

FIG. H-148—CLOSET TEES

Size, inches	3	4	5 x 4	6 x 4
With 2 inch inlet right side only	\$3.00	3.50	6.50	8.00
With 2 inch inlet left side only	3.00	3.50	6.50	8.00
With 2 inch inlet both sides	3.50	4.00	7.00	10.00

FIG. H-149—CLOSET TEES

Size, inches	4	5 x 4	6 x 4
With 2 inch inlet right side and top	\$5.50	7.00	9.00
With 2 inch inlet left side and top	5.50	7.00	9.00
With 2 inch inlet both sides and top	6.00	7.50	10.00

45° Y

45° DOUBLE Y

60° Y



FIG. H-150



FIG. H-151



FIG. H-152

Size, inches	2 x 1½	3 x 2	4 x 2	4 x 3	5 x 2	5 x 3
Fig. H-150—45° Y	\$1.00	1.70	2.60	2.60	3.50	3.50
Fig. H-151—45° Double Y	1.30	2.20	3.10	3.10	4.25	4.25
Fig. H-152—60° Y	1.00	1.70	2.60	2.60	4.50	4.50
Size, inches	5 x 4	6 x 2	6 x 4	6 x 5	8 x 4	8 x 6
Fig. H-150—45° Y	\$3.50	5.50	5.50	5.50	15.00	15.00
Fig. H-151—45° Double Y	4.25	6.50	6.50	6.50	18.00	18.00
Fig. H-152—60° Y	4.50	7.00	7.00	7.00	15.00	15.00

Galvanized Fittings, double above list.

## CAST IRON FITTINGS—DRAINAGE

## 90° Y Branch—T Pattern

## LONG TURN

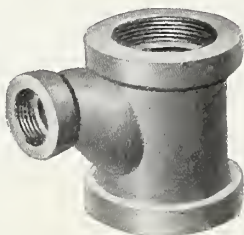


FIG. H-153

Size, inches .....	1½	2	2½	3	4	5	6	7	8	10
Each .....	\$1.15	1.35	1.90	2.25	3.50	5.50	7.00	11.50	14.50	20.00

Size, inches .....	2x1½	2½x1½	2½x2	3x1½	3x2	4x1½	4x2	4x2½	4x3	5x1½	5x2
Each .....	\$1.35	1.90	1.90	2.25	2.25	3.50	3.50	3.50	3.50	5.50	5.50

Size, inches .....	5x3	5x4	6x2	6x3	6x4	6x5	7x4	8x3	8x4	10x4	10x6
Each .....	\$5.50	5.50	7.00	7.00	7.00	7.00	11.50	14.50	14.50	20.00	20.00

## THREE-WAY ELBOW



FIG. H-154

## 90° DOUBLE Y BRANCH—T PATTERN



FIG. H-155

Size, inches .....	1½	2	3x2	3	4x2	4	5x4	5	6x5	6
Fig. H-154—Three-way Elbows, each .....	\$1.00	1.30	2.20	2.20	3.10	4.25	4.25	6.50	6.50	
Fig. H-155—90° Double Y Branches, ea. ....	1.25	1.95	3.00	3.00	4.00	4.00	6.50	6.50	8.50	8.50

Galvanized Fittings, double above list.



## CAST IRON FITTINGS—DRAINAGE

## Traps

HALF "S"



FIG. H-156

THREE-QUARTER "S"

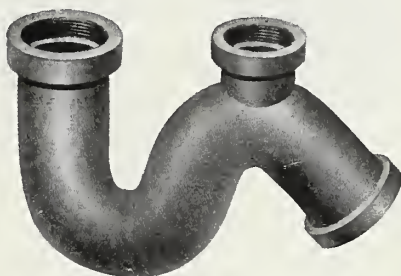


FIG. H-157

Size, inches	2	3	4	5	6	8
Fig. H-156—Each	\$2.25	3.00	4.50	7.50	14.00	22.00
Fig. H-157—Each	3.50	4.00	6.50	10.00	20.00	32.00

"S"

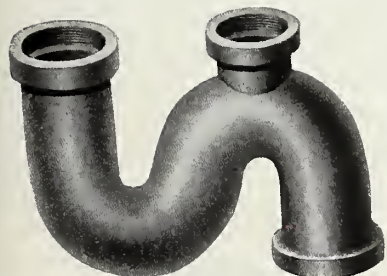


FIG. H-158

RUNNING



FIG. H-159

Size, inches	2	3	4	5	6	8
Fig. H-158—Each	\$3.50	4.00	6.50	10.00	20.00	32.00
Fig. H-159—Each	2.40	3.50	5.00	8.00	15.00	25.00

Galvanized Fittings, double above list.

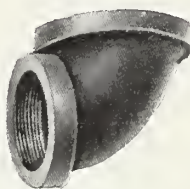
## CAST IRON FITTINGS—DRAINAGE

**CLOSET ELBOW  
WITH FLANGE**



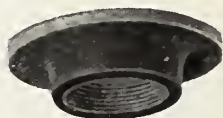
**FIG. H-160**

**CLOSET ELBOW  
REDUCING**



**FIG. H-161**

**CLOSET FLANGE  
IRON**



**FIG. H-162**

Size, inches	4	4x5	5
Fig. H-160—Closet Elbow, with Flange 10 inch diameter, each	\$2.50		
Fig. H-161—Closet Elbow, Reducing, each		3.70	
Fig. H-162—Closet Flange, Iron, Flange 7 inch diameter, each	1.00		
Fig. H-162—Closet Flange, Iron, Flange 10 inch diameter, each			1.30

**CAPPING FOR AIR INLET  
PIPES**



**FIG. H-163**

**TUCKER  
CONNECTION**



**FIG. H-164**

**ROOF  
CONNECTION**



**FIG. H-165**

**FIG. H-163—CAPPINGS FOR AIR INLET PIPES**

Size, inches	2	3	4	5
Each	\$1.20	1.30	1.50	2.00

### CONNECTIONS

Size, inches	2	3	4	5	6
Fig. H-164—Tucker, each	.75	1.00	2.50	4.50	6.00
Fig. H-165—Roof, each	.50	.80	1.00	1.20	2.00

**CLOSET FLANGE—BRASS**



**FIG. H-166**

**BRASS SOLDERING NIPPLE**



**FIG. H-167**

Size, inches	1	1 1/4	1 1/2	2	3	4
Fig. H-166—Closet Flange, Brass, Flange 7 1/2 inch diameter, each						\$3.20
Size, inches	1	1 1/4	1 1/2	2	3	4
Fig. H-167—Brass Soldering Nipples, each	.42	.63	.84	1.17	2.34	4.00

Galvanized Fittings, double above lists.

## CAST IRON FITTINGS

## Hook Plate



FIG. H-168

## Single Hook



FIG. H-169

## Expansion Plate



FIG. H-170

## Beam Hook



FIG. H-171

FIGS. H-168 AND H-169—HOOK PLATES

Number of Hooks	1	2	3	4	5	6	7	8	9	10	11	12
For 1 inch Pipe	.09	.18	.23	.26	.32	.38	.48	.59	.65	.70	.85	1.00
For 1¼ inch Pipe	.10	.21	.27	.32	.41	.52	.68	.80	.90	1.20	1.35	1.40
For 1½ inch Pipe	.15	.28	.43	.58	.72	.88	1.10	1.25	1.40	1.55	1.65	1.90
For 2 inch Pipe	.22	.43	.65	.90	1.15	1.35	1.75	2.00	2.25	2.50	2.75	3.00

FIG. H-170—EXPANSION PLATES

Number of Hooks	1	2	3	4	5	6	7	8	9	10	11	12
For 1 inch Pipe	.15	.25	.35	.50	.60	.70	.80	.95	1.10	1.35	1.55	1.70
For 1¼ inch Pipe	.17	.27	.40	.60	.70	.80	.90	1.15	1.30	1.50	1.70	2.00
For 1½ inch Pipe	.25	.40	.60	.75	.90	1.00	1.25	1.50	1.75	2.00	2.25	2.50
For 2 inch Pipe	.40	.60	.85	1.00	1.35	1.55	2.00	2.45	2.75	3.10	3.60	4.25

FIG. H-171—BEAM HOOKS

Size, inches	1½	¾	1	1¼	1½	2	2½	3
Black, each	.13	.15	.18	.22	.24	.35	.65	.90

## Ring Plates



FIG. H-172



FIG. H-173

FIGS. H-172 AND H-173

No. of Pipes	1	2	3	4	5	6	7	8	9	10
1 inch, each	.16	.28	.41	.50	.62	.72	.96	1.00	1.20	1.30
1¼ inch, each	.21	.35	.50	.62	.75	1.10	1.25	1.40	1.60	1.80

### “O. S.” DISTRIBUTER

Insures free, positive, uniform circulation. Saves labor, fittings and joints, cutting of floors, beams, etc. Prevents friction; no leaks; keeps risers in line.

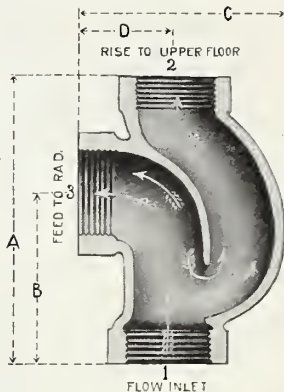


FIG. H-174

Positions of tappings are indicated by Figures 1, 2, 3.

SIZES				PRICES			
Tappings, Inches.				Size Inches.		Each.	
1	2	3					
1 x 3/4	x 3/4			1	-----		.60
1 x 3/4	x 1			1 1/4	-----		.80
1 x 1	x 3/4			1 1/2	-----		.90
1 x 1	x 1			2	-----		1.20
1 1/4 x 1	x 1			2 1/2	-----		2.00
1 1/4 x 1	x 1 1/4						
1 1/4 x 1 1/4	x 1						
1 1/4 x 1 1/4	x 1 1/4						
1 1/2 x 1 1/4	x 1						
1 1/2 x 1	x 1 1/4						
1 1/2 x 1 1/4	x 1 1/4						

Tappings, Inches.				PRICES			
1	2	3		Size Inches.		Each.	
1	2	3					
1 1/2 x 1 1/4	x 1 1/2			1	-----		.60
1 1/2 x 1 1/2	x 1 1/4			1 1/4	-----		.80
1 1/2 x 1 1/2	x 1 1/2			1 1/2	-----		.90
2 x 1 1/4	x 1 1/2			2	-----		1.20
2 x 1 1/2	x 1 1/4			2 1/2	-----		2.00
2 x 1 1/2	x 1 1/2						
2 x 2	x 2						
2 1/2 x 1 1/2	x 1 1/2						
2 1/2 x 2	x 1 1/2						
2 1/2 x 2	x 2						

### Three-Way Elbow

Used in place of Branch Headers



FIG. H-175

FIG. H-175—THREE-WAY ELBOWS

Size, Inches.	Each.	Size, Inches.	Each.
1 x 3/4	.38	3 x 2 1/2	\$2.25
1 1/4 x 1	.52	4 x 3	3.75
1 1/2 x 1 1/4	.68	5 x 3 1/2	6.75
2 x 1 1/2	.90	5 x 4	6.75
2 1/2 x 2	1.50	6 x 5	9.75



## PIPE HANGERS

## Ball Joint

No. 1



FIG. H-176

No. 2

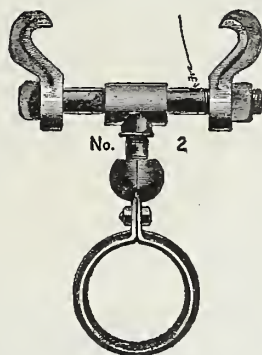


FIG. H-177

No. 3



FIG. H-178

Size, inches	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	7	8	10	12
Fig. H-176—Plain, Ea.	.15	.18	.18	.20	.22	.25	.30	.35	.37	.45	.58	.70	1.05	1.20	1.60	1.90
Fig. H-177—Plain, Ea.	.55	.58	.58	.60	.62	.65	.70	.75	.77	.85	.98	1.10	1.45	1.60	2.00	2.30
Fig. H-178—Plain, Ea.	.30	.33	.33	.35	.37	.40	.55	.62	.70	.83	1.05	1.20	1.55	1.70	2.00	2.30

No. 1 Hangers always sent, unless otherwise specified.

When ordering No. 2 Hangers, state size of Beam.

## Ox Bow

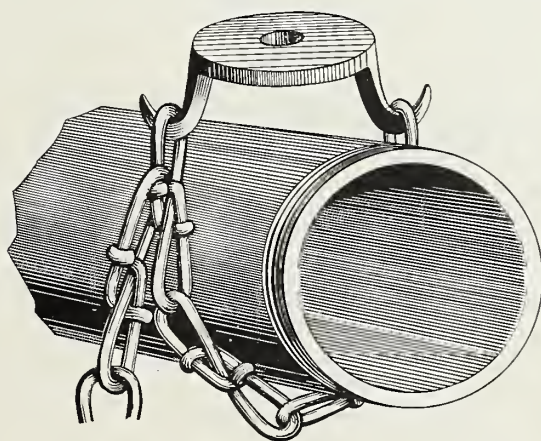


FIG. H-179

Hangers, less chain, per 100	\$7.50
Chain, per 100 feet	4.50



## PIPE HANGERS

FIG. H-180

The bar *can be bent* to any desired angle. A great hanger for *soil pipe* work.

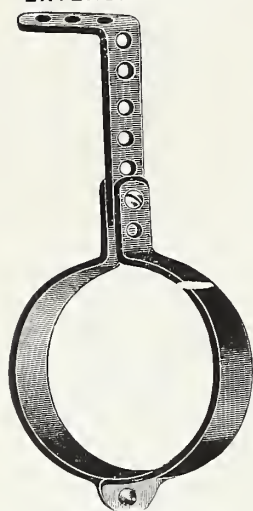
HINGE RING AND  
EXTENSION BAR

FIG. H-180

Size, in.---	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Each-----	.19	.19	.21	.23	.25	.27	.29	.31	.35	.37
Size, in.---	$4\frac{1}{2}$	5	6	7	8	9	10	11	12	
Each-----	.39	.41	.45	.70	.95	1.20	1.50	1.70	2.00	

Ring and Bolt only, deduct 2 cents from above price.

## STEEL DROP FORGED I BEAM CLAMP

(Adjustable to fit I Beams 1 to  $6\frac{1}{2}$  inches.)

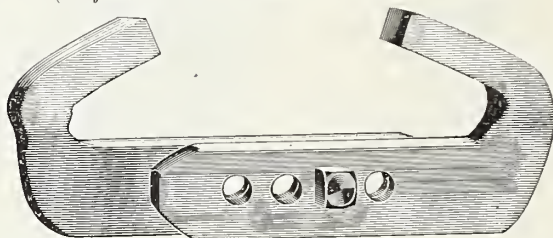


FIG. H-181

Size.		Each.
No. 1-----	For Pipe $\frac{1}{2}$ to $1\frac{1}{2}$ inclusive-----	.25
No. 2-----	For Pipe 2 to 3 inclusive-----	.30
No. 3-----	For Pipe $3\frac{1}{2}$ to 6 inclusive-----	.35
No. 4-----	For Pipe 7 to 8 inclusive-----	.50
No. 5-----	For Pipe 9 to 12 inclusive-----	.70

## HANGER ROLLS



FIG. H-182

## 2 INCH AND SMALLER

Number of Pipes-----	1	2	3	4	5	6
For 1 inch pipe, $2\frac{1}{2}$ inches center to center, each-----	.06	.12	.18	.24	.30	.36
For $1\frac{1}{4}$ inch pipe, 3 inches center to center, each-----	.07	.14	.21	.28	.35	.42
For $1\frac{1}{2}$ inch pipe, 3 inches center to center, each-----	.08	.16	.24	.32	.40	.48
For 2 inch pipe, $3\frac{1}{4}$ inches center to center, each-----	.13	.26	.39	.52	.65	.78

Above prices for Rolls only, without Rods, Bolts or Flanges.

 $2\frac{1}{2}$  INCH AND LARGER

Size, inches-----	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10	12	14
Length, end to end-----	$4\frac{3}{4}$	$4\frac{3}{4}$	$5\frac{1}{2}$	$5\frac{1}{2}$	6	6	$7\frac{3}{4}$	8	9	$11\frac{1}{2}$	14	$17\frac{1}{2}$
Weight, lbs.-----	2	2	$3\frac{1}{2}$	$3\frac{1}{2}$	4	4	$4\frac{1}{2}$	6	$7\frac{1}{4}$	12	$17\frac{1}{2}$	22
Each-----	.15	.18	.21	.21	.24	.24	.27	.36	.44	.72	1.05	1.32

Above prices for Rolls only, without Rods, Bolts or Flanges.

## MALLEABLE PIPE RING



FIG. H-183

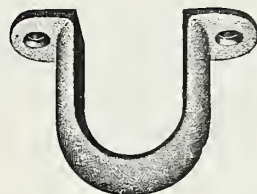
CAST IRON  
SPRINKLER CLIP

FIG. H-184

FIG. H-183

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8
Weight lbs. per 100	$9\frac{1}{4}$	$15\frac{3}{4}$	18	28	35	39	$49\frac{1}{2}$	71	$84\frac{1}{2}$	91	100	---	---	---
Each	.02	.03	.03	.04	.05	.06	.08	.12	.15	.20	.25	.40	.50	.60

7 and 8 inch are Wrought Iron

FIG. H-184

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Short, each	.09	.09	.10	.11	.12	.15	.35	.39	.47	.60
Long, each	.09	.09	.10	.11	.12	.15	.35	.39	.47	.60
Extra Long, each	---	.20	.22	.24	.25	.32	---	---	---	---

## SPRINKLER HANGER



FIG. H-185

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Each	.09	.10	.11	.18	.29	.33	.46

## ADJUSTABLE PIPE HANGERS

## Brass and Iron

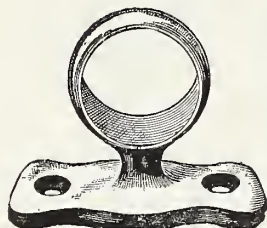


FIG. H-186

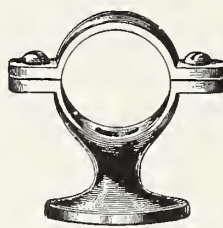


FIG. H-187

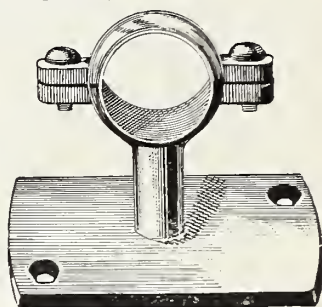


FIG. H-188

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. H-186—Plain Iron, per 100	\$5.00	5.00	5.80	6.75	7.50	10.00	14.00
Fig. H-186—Galvanized Iron, per 100	6.50	6.50	7.00	8.00	9.00	12.00	16.00
Fig. H-186—Polished Brass, each	.34	.34	.36	.40	.55	.80	1.10
Fig. H-186—Nickel-plated, each	.36	.36	.38	.45	.60	.90	1.25
Fig. H-187—Galvanized Iron, each	.17	.17	.20	.25	.30	.40	.50
Fig. H-187—Polished Brass, each	.34	.34	.36	.40	.55	.80	1.10
Fig. H-187—Nickel-plated, each	.36	.36	.38	.45	.60	.90	1.25
Fig. H-188—Galvanized Iron, each	.17	.17	.20	.25	.30	.40	.50

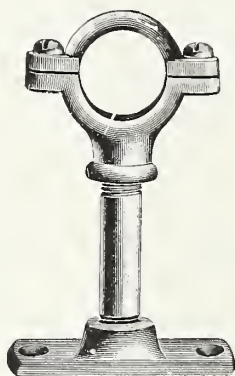


FIG. H-189

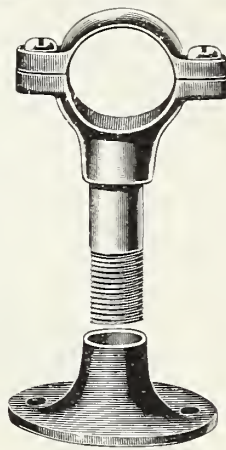


FIG. H-190

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	4	5	6	7	8
Plain Iron, each	.22	.22	.27	.32	.35	.40	.50	.70	.90	1.10	1.40	1.90	2.50	3.00
Galv. Iron, each	.25	.25	.30	.35	.40	.50	.60	.80	1.00	1.25	1.75	2.25	3.00	3.50
Pol'd Brass, each	.90	.90	1.00	1.15	1.30	1.50	1.70							
N. P., each	1.00	1.00	1.10	1.25	1.40	1.60	1.80							

FIG. H-190

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Polished Brass, each	.90	.90	1.00	1.15	1.30	1.50	1.70
Nickel-plated, each	1.00	1.00	1.10	1.25	1.40	1.60	1.80

NOTE.—Figures H-189 and H-190 are furnished with  $\frac{1}{4}$  x 4 Nipple.

## FLOOR AND CEILING PLATES

## Cast Iron Ceiling Plates

TWO-PART



FIG. H-191

SOLID



FIG. H-192

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
Fig. H-191—Each		.22	.28	.32	.40	.50	.65	.90	1.00	1.20			
Fig. H-192—Each	.11	.13	.16	.18	.23	.27	.36	.50	.55	.68	.95	.95	1.25

## Cast Iron Floor Plates

WITH COLLAR



FIG. H-193

FLAT



FIG. H-194

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
Fig. H-193—Each	.06	.06	.08	.11	.14	.16	.24	.30	.35	.42			
Fig. H-194—Each	.06	.06	.08	.11	.14	.16	.24	.30	.35	.42	.60	.60	.75

## Adjustable Floor and Ceiling Plate

No. 40

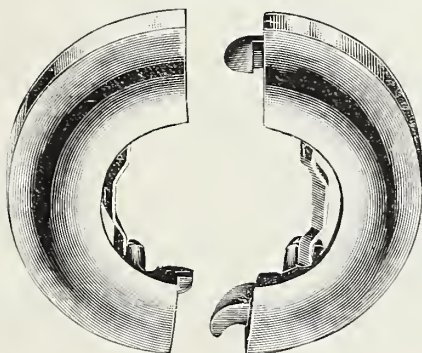


FIG. H-195

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
No. 4, Plain, each	.14	.14	.18	.20	.24	.28	.43	.60
No. 40, Nickel-plated, each	.25	.25	.28	.32	.35	.38	.52	.75

## FLOOR AND CEILING PLATES

## Spun Brass Floor and Ceiling Plates—Nickel-Plated

FLOOR PLATE

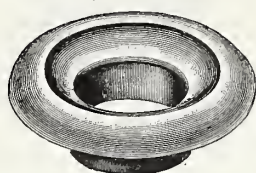


FIG. H-196

CEILING PLATE

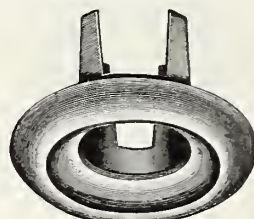


FIG. H-197

FIGS. H-196 AND H-197

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Each	.08	.08	.09	.10	.11	.12	.13	.15

## RUSSELL'S ADJUSTABLE FLOOR AND CEILING PLATES

## Spring Brass—Nickel Plated

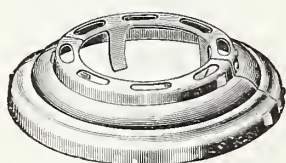


FIG. H-198

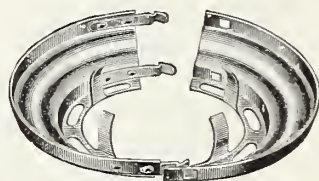


FIG. H-199

FIGS. H-198 AND H-199

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Nickel-Brass	.25	.25	.25	.28	.32	.35	.38	.52	.75

## Cold Rolled Steel



FIG. H-200

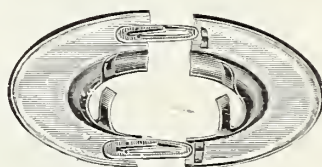


FIG. H-201

FIGS. H-200 AND H-201

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Polished Steel	.12	.12	.15	.18	.20	.24
Nickel-plated Steel	.25	.25	.28	.32	.35	.38



## TELESCOPING FIRE PROOF FLOOR SLEEVE

## Galvanized Sheet Iron

WITH NEAT CAST IRON FLANGE ON TOP AND BOTTOM

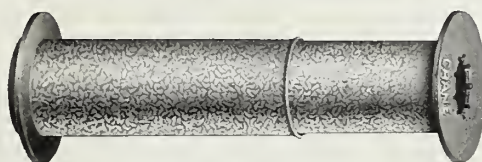
EASILY  
ADJUSTEDHAS NO SCREWS,  
SLOTS  
OR SPRINGS  
TO GET  
OUT OF ORDER

FIG. H-202

The Galvanized Sheet Iron Floor Sleeve, as illustrated above, is intended to meet the demands for a cheaper article than Cast Iron Floor Sleeves.

They are so designed that they can be adjusted to the required permanent position, and remain so, without the use of screws, slots or springs, which are liable to get out of order.

Below is a table showing standard sizes and range of each size :

NO. 1

Size of Pipe, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$
Minimum Length, inches	12	12	12
Maximum Length, inches	17	17	17
Each	\$1.00	1.10	1.30

NO. 2

Size of Pipe, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	8
Minimum Length, inches	14	14	14	14	14	14	14	14	14	14	14	14
Maximum Length, inches	24	24	24	24	24	24	24	24	24	24	24	24
Each	\$1.05	1.20	1.35	1.50	1.80	2.10	2.50	3.00	3.75	4.50	5.25	6.75

## Gas Pipe Hook



FIG. H-203

Pipe Strap  
TINNED

FIG. H-204

FIG. H-203-GAS PIPE HOOKS

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Per 100	.46	.56	.66	.94	1.20	1.50	1.90	2.50

FIG. H-204-PIPE STRAPS-TINNED

Sizes, $\frac{1}{4}$ inch to 2 inches, per pound	.30
--------------------------------------------------	-----

## PIPE SADDLES AND CLAMPS

FOR STEAM, WATER AND GAS CONNECTIONS

## Pipe Saddles

SINGLE STRAP

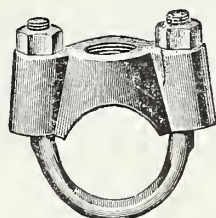


FIG. H-205

DOUBLE STRAP

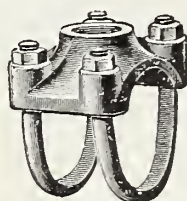


FIG. H-206

FIG. H-205—CAST IRON

Size of Pipe, inches	2	2½	3	4	4½
Tapped for Pipe, inches	½ to 1	¾ to 1½	¾ to 2	¾ to 2	¾ to 2
Single Strap, each	.80	.85	.90	1.20	1.40
Size of Pipe, inches	5	6	8	10	12
Tapped for Pipe, inches	1 to 2	1 to 2	2 to 3	2 to 4	3 to 4
Single Strap, each	\$1.40	1.70	3.00	---	---

FIG. H-206—MALLEABLE IRON

Size of Pipe, inches	2	3	4	4¼	4½	5	5½
Tapped for Pipe, inches	1 to 1½	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2
Double Strap, each	\$1.00	1.00	1.25	2.00	2.50	2.75	2.75
Size of Pipe, inches	5⅝	6	6	6¼	6¼	7⅝	7⅝
Tapped for Pipe, inches	2½ to 4	1 to 2	2½ to 4	1 to 2	2½ to 4	1 to 2	1 to 2
Double Strap, each	\$5.50	2.50	5.75	3.00	5.75	4.50	4.50
Size of Pipe, inches	8	8	10	10	12	12	12
Tapped for Pipe, inches	1 to 2	2½ to 4	1 to 2	2½ to 4	1 to 2	2½ to 4	2½ to 4
Double Strap, each	\$4.50	6.50	5.50	6.75	6.25	8.75	8.75

## Water Pipe Clamp

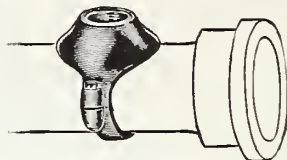


FIG. H-207

Size of Pipe, inches	3	3	4	4	4
Tapped for Pipe, inches	¾ to 1	1¼ to 2	½ to 1½	2	3
Each	\$1.25	1.50	1.75	2.00	4.00
Size of Pipe, inches	6	6	6	8	8
Tapped for Pipe, inches	½ to 1½	2	3	½ to 3	4
Each	\$2.25	2.50	5.00	5.50	6.00

## STEAM JOINT CLAMPS

"Climax"

THE ONLY PRACTICAL DEVICE MADE TO REPAIR LEAKS AT JOINTS  
WHERE PIPES ARE SCREWED INTO FITTINGS

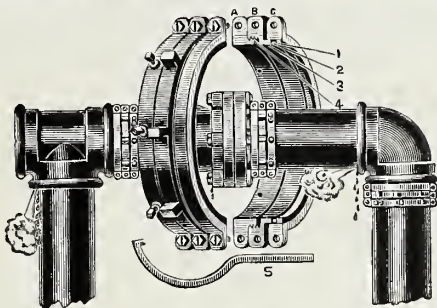


FIG. H-208

	Each.		Each.
$\frac{3}{4}$ inch Pipe .....	\$1.50	4 inch Pipe .....	\$6.00
1 inch Pipe .....	1.50	$4\frac{1}{2}$ inch Pipe .....	6.75
$1\frac{1}{4}$ inch Pipe .....	1.90	5 inch Pipe .....	7.50
$1\frac{1}{2}$ inch Pipe .....	2.25	6 inch Pipe .....	9.00
2 inch Pipe .....	3.00	7 inch Pipe .....	10.50
$2\frac{1}{2}$ inch Pipe .....	3.75	8 inch Pipe .....	13.00
3 inch Pipe .....	4.50	10 inch Pipe .....	18.75
$3\frac{1}{2}$ inch Pipe .....	5.25	12 inch Pipe .....	22.50

"Emergency"

AN INEXPENSIVE DEVICE FOR REPAIRING LEAKS AND SPLITS IN PIPE

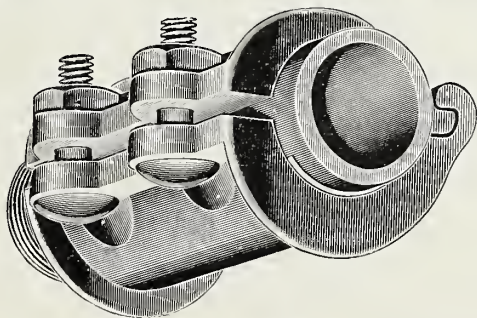


FIG. H-209

Size of Pipe, inches .....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Length over all .....	$3\frac{1}{4}$	$3\frac{3}{4}$	$3\frac{1}{2}$	$3\frac{3}{4}$	4	$4\frac{1}{4}$	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6
Each .....	.40	.45	.50	.60	.70	.80	1.00	1.25	1.50	2.00

# MALLEABLE IRON FITTINGS

## Pound Price List

### CLASSIFICATION AND PRICE LIST

ADOPTED NOVEMBER 6, 1906.

Class	A	B	C	*D
Black, per lb	.40	.26	.16	.13
Galvanized, per lb	.50	.35	.23	.20
Elbows	$\left\{ \begin{array}{l} 1 \\ 8 \end{array} \right\} \times \left\{ \begin{array}{l} 1 \\ 8 \end{array} \right\}$	$\left\{ \begin{array}{l} 3 \\ 8 \end{array} \right\} \times \left\{ \begin{array}{l} 1 \\ 4 \end{array} \right\}$	$\frac{1}{2} \times \frac{3}{8}$	$\frac{3}{4}$ and larger
Elbows, R. & L	$\frac{1}{4}, \frac{3}{8}$	$\frac{1}{2}$ and smaller	$\frac{3}{4}$ and 1	$1\frac{1}{4}$ and larger
Elbows, 45°		$\frac{1}{4}$ and $\frac{3}{8}$	$\frac{3}{4}$ to 2 incl.	$2\frac{1}{2}$ and larger
Elbows, Street		and smaller	$\frac{1}{2}, \frac{3}{4}$ to $1 \times \frac{3}{4}$	1 and larger
Elbows, Side Outlet		and smaller	and larger	
Elbows, Drop		and smaller	$\frac{3}{4}$ and larger	
Tees	$\left\{ \begin{array}{l} 1 \\ 8 \end{array} \right\} \times \left\{ \begin{array}{l} 1 \\ 8 \end{array} \right\}$	$\left\{ \begin{array}{l} 3 \\ 8 \end{array} \right\} \times \left\{ \begin{array}{l} 1 \\ 4 \end{array} \right\}$	$\frac{1}{2}$ reduc.	$\frac{3}{4}$ and larger
Tees, Four Way		$\frac{1}{2}$ and smaller	$\frac{3}{4}$ and larger	
Tees, Drop		and smaller	$\frac{3}{4}$ and larger	
Tees, Service			$\left\{ \begin{array}{l} 1 \\ 2 \end{array} \right\} \times \left\{ \begin{array}{l} 3 \\ 4 \end{array} \right\} \times 1$	1 and larger
Crosses		$\frac{1}{4}, \frac{3}{8}$ and $\frac{1}{2}$	$\frac{3}{4}$ and 1	$1\frac{1}{4}$ and larger
Crosses, Reducing		1 and smaller		$1\frac{1}{4}$ and larger
Return Bends		$\frac{3}{8}$ and $\frac{1}{2}$	$\frac{3}{4}$ and 1	$1\frac{1}{4}$ and larger
Return Bends, R. & L	$\frac{3}{8}, \frac{1}{2}$	$\frac{3}{4}$ and 1	$1\frac{1}{4}$ and larger	
Couplings, R. H		$\frac{3}{8}$ and $\frac{1}{4}$	$\frac{1}{2}$ and $\frac{3}{4}$	1 and larger
Couplings, R. & L		and $\frac{1}{4}$	$\frac{1}{2}$ and $\frac{3}{4}$	1 and larger
Couplings, Reducing	$\left\{ \begin{array}{l} 1 \\ 8 \end{array} \right\} \times \left\{ \begin{array}{l} 1 \\ 8 \end{array} \right\}$	$\left\{ \begin{array}{l} 3 \\ 8 \end{array} \right\} \times \left\{ \begin{array}{l} 1 \\ 4 \end{array} \right\}$	$\left\{ \begin{array}{l} 3 \\ 4 \end{array} \right\} \times \left\{ \begin{array}{l} 1 \\ 2 \end{array} \right\}$ to 1 incl.	$1\frac{1}{4}$ and larger
Caps		and $\frac{1}{4}$	$\frac{1}{2}, \frac{3}{4}$ and 1	$1\frac{1}{4}$ and larger
Locknuts		$\frac{1}{4}, \frac{3}{8}$ and $\frac{1}{2}$	$\frac{3}{4}, 1, 1\frac{1}{4}$	$1\frac{1}{2}$ and larger
Extension Pieces		$\frac{3}{8}$ and $\frac{1}{2}$	$\frac{3}{4}$ and larger	
Waste Nuts		and smaller	1 and larger	
Chandelier Hooks		All sizes		
Chandelier Loops		All sizes		
Wall Plates		All sizes		
Y Bends, 45°		$\frac{3}{4}$ and $\frac{1}{2}$	1 and larger	
Pump Rod Sockets	$\left\{ \begin{array}{l} 3 \\ 8 \end{array} \right\} \times \left\{ \begin{array}{l} 7 \\ 16 \end{array} \right\}$	$\frac{1}{2}$		

\* Such fittings in Class D as have one or more openings smaller than  $\frac{3}{4}$  to be Class C.

The run of Tees gives the sizes for the purpose of classification; the outlet being larger does not change it.

In ordering be particular to state whether beaded or plain.

An extra charge will be made for fittings not enumerated in standard list.

# MALLEABLE IRON FITTINGS

## Piece Price List

### BLACK

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Cap	.03	.04	.05	.08	.12	.16	.24	.32	.45	.85	1.00	1.20	
Chandelier Hook		.10	.12										
Chandelier Loop		.10	.12										
Coupling, Right Hand	.03	.04	.07	.10	.14	.20	.25	.35					
Coupling, Right and Left	.04	.05	.08	.12	.16	.25	.36	.52					
Couplings, Reducing	.03	.03	.05	.10	.16	.20	.28	.45	.70	1.00	1.50	1.85	
Cross	.08	.10	.12	.20	.30	.40	.60	1.00	1.75	3.00	3.25	5.25	
Drop Elbow	.06	.08	.12	.20	.25								
Drop Elbow, Long		.10											
Drop Tee	.08	.10	.14	.22	.30								
Elbow, Right Hand	.04	.04	.06	.10	.15	.22	.25	.35	.50	.80	1.50	2.25	3.00
Elbow, Right and Left	.05	.07	.12	.17	.25	.30	.40	.65					
Elbow, Side Outlet	.08	.10	.18	.30	.45	.60	1.00						
Elbow, 45°	.08	.10	.12	.18	.26	.36	.54	.82	1.25	2.50	3.25	4.50	
Extension Piece		.06	.09	.12									
Locknut	.02	.03	.04	.05	.07	.09	.11	.18	.40	.50			
Reducer	.03	.03	.05	.10	.16	.20	.28	.45	.70	1.00	1.50	1.85	
Return Bend, Close { R. H.			.13	.25	.35	.50	.75	1.00					
{ R. & L.			.15	.30	.45	.60	.90	1.25					
Return Bend, Open { R. H.			.15	.30	.50	.65	.85	1.25	2.00	3.00			
{ R. & L.			.20	.38	.60	.80	1.05	1.55	2.50	3.75			
Street Elbow	.10	.10	.12	.20	.25	.40	.55	.90	1.50				
Tee	.07	.07	.08	.11	.15	.25	.30	.45	.60	1.05	1.70	2.50	3.40
Tee, Four Way		.12	.14	.20	.35	.50	.80	1.25					
Wall Plate		.12											
Waste Nut	.04	.05	.06	.08	.10								
Y Branch			.25	.40	.60	.80	1.00	1.70	2.00	3.00	3.50	4.00	

### GALVANIZED

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Cap	.04	.05	.08	.12	.17	.24	.38	.52	.76	1.30	1.60	2.00
Coupling, Right Hand	.05	.07	.10	.17	.23	.30	.40	.55				
Coupling, Right and Left	.06	.08	.10	.17	.25	.35	.55	.75				
Couplings, Reducing	.05	.08	.15	.25	.35	.45	.75	1.05	1.65	2.40	3.05	
Cross	.15	.17	.25	.45	.60	.90	1.50	2.75	4.25	5.00	8.00	
Drop Elbow	.12	.20	.35	.40								
Drop Elbow, Long	.18											
Drop Tee	.15	.25	.40	.55								
Elbow, Right Hand	.05	.08	.14	.20	.32	.40	.60	.90	1.35	2.60	3.75	5.00
Elbow, Side Outlet	.10	.15	.24	.45	.70	1.10						
Elbow, 45°	.12	.15	.20	.25	.40	.50	.85	1.35				
Locknut	.03	.04	.05	.07	.10	.14	.20	.30	.55	.70		
Reducer	.05	.08	.15	.25	.35	.45	.75	1.05	1.65	2.40	3.05	
Return Bend, Close, R. H.		.25	.35	.55	.75	1.15	1.65					
Return Bend, Open, R. H.		.25	.45	.70	.90	1.25	2.00	3.50	5.00			
Street Elbow	.12	.12	.15	.28	.35	.55	.80	1.30				
Tee	.09	.10	.16	.20	.38	.50	.70	1.00	1.90	3.00	4.25	5.75
Tee, Four Way		.21	.30	.55	.75	1.20						
Waste Nut	.08	.10	.12	.16	.20							
Y Branch			.38	.60	.90	1.25	1.50	2.50	3.00	4.50		



# MALLEABLE IRON FITTINGS

## LIST OF SIZES AND APPROXIMATE WEIGHTS

### PLAIN



FIG. H-210

### BEADED



FIG. H-211

## Elbows

NOTE.—Weights on this and following pages are only approximate and are not guaranteed.

Class.	Size.		Weight Plain.	Weight Beaded.	Class.	Size.		Weight Plain.	Weight Beaded.
			Lbs. per 100	Lbs. per 100				Lbs. per 100	Lbs. per 100
A		$\frac{1}{8}$	8	---	D	$1\frac{1}{2}$ x $\frac{3}{4}$		102 $\frac{1}{2}$	167
A	$\frac{1}{4}$ x	$\frac{1}{8}$	7 $\frac{1}{2}$	---	D	$1\frac{1}{2}$ x 1		94 $\frac{1}{2}$	148 $\frac{1}{2}$
B		$\frac{1}{4}$	8 $\frac{1}{2}$	10	D	$1\frac{1}{2}$ x $1\frac{1}{4}$		101	145
A	$\frac{3}{8}$ x	$\frac{1}{4}$	14 $\frac{1}{2}$	---	D		$1\frac{1}{2}$	105	143
B	$\frac{3}{8}$ x	$\frac{1}{4}$	14	16	D	2 x 1		---	215
B		$\frac{3}{8}$	15	16	D	2 x $1\frac{1}{4}$		176	225
B	$\frac{1}{2}$ x	$\frac{3}{8}$	22 $\frac{1}{2}$	---	D	2 x $1\frac{1}{2}$		169	240
C	$\frac{1}{2}$ x	$\frac{1}{2}$	19 $\frac{1}{2}$	25 $\frac{1}{2}$	D		2	169 $\frac{1}{2}$	214
C		$\frac{1}{2}$	22	23 $\frac{1}{2}$	D	$2\frac{1}{2}$ x $1\frac{1}{2}$		---	388
C	$\frac{3}{4}$ x	$\frac{1}{2}$	31	---	D	$2\frac{1}{2}$ x 2		---	344
C	$\frac{3}{4}$ x	$\frac{1}{2}$	35	40 $\frac{1}{2}$	D		$2\frac{1}{2}$	---	407
D		$\frac{1}{2}$	33 $\frac{1}{2}$	39	D	3 x 2		---	438
C	1 x	$\frac{1}{2}$	47 $\frac{1}{2}$	59	D	3 x $2\frac{1}{2}$		---	531
D	1 x	$\frac{3}{4}$	45	61 $\frac{1}{2}$	D		3	---	620
D		1	42 $\frac{1}{2}$	63	D	$3\frac{1}{2}$ x 3		---	1200
D	$1\frac{1}{4}$ x	$\frac{3}{4}$	83	104 $\frac{1}{2}$	D		$3\frac{1}{2}$	---	1000
D	$1\frac{1}{4}$ x 1		88 $\frac{1}{2}$	97 $\frac{1}{2}$	D	4 x $3\frac{1}{2}$		---	1250
D	$1\frac{1}{4}$		76	99	D		4	---	1506

## Street Elbow



FIG. H-212

Class.	Size.		Weight Beaded.	Class.	Size.		Weight Beaded.
			Lbs. per 100				Lbs. per 100
B		$\frac{1}{4}$	11	D	$1\frac{1}{4}$ x $\frac{3}{4}$		100
B		$\frac{3}{8}$	16	D	$1\frac{1}{4}$ x 1		107
C		$\frac{1}{2}$	26	D		$1\frac{1}{4}$	114
C	$\frac{3}{4}$ x	$\frac{1}{2}$	44	D	$1\frac{1}{2}$ x $1\frac{1}{4}$		153
C		$\frac{3}{4}$	47	D		$1\frac{1}{2}$	158
C	1 x	$\frac{3}{4}$	72	D	2 x $1\frac{1}{2}$		229
D	1		73	D		2	266

# MALLEABLE IRON FITTINGS

## LIST OF SIZES AND APPROXIMATE WEIGHTS

45° ELBOW



FIG. H-213

SIDE OUTLET ELBOW

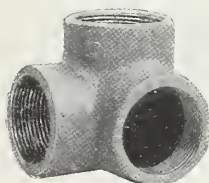


FIG. H-214

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Class	B	B	C	C	C	C	C
Weight, Beaded, pounds, per 100	$12\frac{1}{2}$	$16\frac{1}{2}$	31	49	$83\frac{1}{2}$	118	170

FIG. H-214—SIDE OUTLET ELBOWS

Class.	Size.	Weight, Plain, lbs., per 100.	Class.	Size.	Weight, Plain, lbs., per 100.
B	$\frac{3}{8} \times \frac{3}{8} \times \frac{1}{4}$	12	C	1 x1 x $\frac{3}{8}$	48
B	$\frac{3}{8} \times \frac{3}{8} \times \frac{3}{8}$	16	C	1 x1 x $\frac{1}{2}$	$49\frac{1}{2}$
B	$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$	$19\frac{1}{2}$	C	1 x1 x $\frac{3}{4}$	$51\frac{1}{2}$
B	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	29	C	1 x1 x1	$55\frac{1}{2}$
C	$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{8}$	37	C	$1\frac{1}{4} \times 1\frac{1}{4} \times 1\frac{1}{4}$	$91\frac{1}{2}$
C	$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{2}$	38	C	$1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$	150
C	$\frac{1}{4} \times \frac{3}{4} \times \frac{1}{4}$	40	C	2 x2 x2	230

Smallest opening is always the side opening.

DROP ELBOW, FEMALE

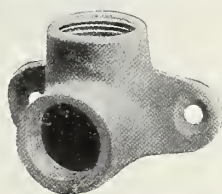


FIG. H-215

DROP ELBOW, MALE AND FEMALE

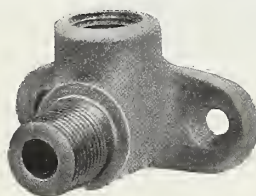


FIG. H-216

FIG. H-215—DROP ELBOWS, FEMALE

Class.	Size.	Weight, Plain, lbs., per 100.	Class.	Size.	Weight, Plain, lbs., per 100.
B	$\frac{1}{4} \times \frac{1}{4}$	13	B	$\frac{1}{2} \times \frac{1}{2}$	27
B	$\frac{3}{8} \times \frac{1}{4}$	22	C	$\frac{3}{4} \times \frac{1}{2}$	$40\frac{1}{2}$
B	$\frac{3}{8} \times \frac{3}{8}$	19	C	$\frac{3}{4} \times \frac{3}{4}$	$41\frac{1}{2}$
B	$\frac{1}{2} \times \frac{3}{8}$	27	C	1 x1	56

FIG. H-216—DROP ELBOWS, MALE AND FEMALE

Class.	Size.	Weight, Plain, lbs., per 100.	Class.	Size.	Weight, Plain, lbs., per 100.
B	$\frac{1}{8} \times \frac{3}{8}$	12	B	$\frac{3}{8} \times \frac{3}{8}$	21
B	$\frac{1}{4} \times \frac{3}{8}$	$16\frac{1}{2}$	B	$\frac{1}{2} \times \frac{3}{8}$	$25\frac{1}{2}$

# MALLEABLE IRON FITTINGS

## LIST OF SIZES AND APPROXIMATE WEIGHTS

### Drop Elbows—Flanged

FLANGE RIGHT



FIG. H-217

FIG. H-217

Class.	Size.	Weight, Plain lbs. per 100.
B	$\frac{1}{4}$ X $\frac{3}{8}$	$14\frac{1}{2}$
B	$\frac{3}{8}$ X $\frac{3}{8}$	$20\frac{1}{4}$

FIG. H-218

Class.	Size.	Weight, Plain lbs. per 100.
B	$\frac{1}{4}$ X $\frac{3}{8}$	$14\frac{1}{2}$
B	$\frac{3}{8}$ X $\frac{3}{8}$	$20\frac{1}{4}$

FLANGE LEFT



FIG. H-218

### Long Drop Elbow WITH DROP 2 1-2 INCHES LONG

Class.	Size.	Weight Plain lbs. per 100.
B	$\frac{1}{4}$ X $\frac{3}{8}$	16



FIG. H-219

Class.	Size.	Weight Plain lbs. per 100.
B	$\frac{3}{8}$ X $\frac{3}{8}$	26

PLAIN

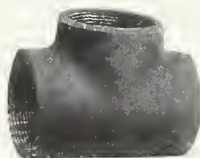


FIG. H-220

## Tees

In describing Tees, the run is first named, then the outlet, thus:

$$\frac{1}{2} \text{ T } \frac{3}{8} = \frac{1}{2} \text{ X } \frac{3}{8} \text{ X } \frac{3}{4}$$

BEADED



FIG. H-221

Class.	Size.	Weight Plain. lbs. per 100	Weight Beaded. lbs. per 100	Class.	Size.	Weight Plain. lbs. per 100	Weight Beaded. lbs. per 100
A	$\frac{1}{8}$	9	---	C	$\frac{1}{2}$ X $\frac{3}{8}$ X $\frac{3}{4}$	$32\frac{1}{2}$	---
A	$\frac{1}{8}$ X $\frac{1}{4}$	8	---	C	$\frac{1}{2}$ X $\frac{1}{4}$	21	---
A	$\frac{1}{8}$ X $\frac{1}{8}$	$9\frac{1}{2}$	---	C	$\frac{1}{2}$ X $\frac{3}{8}$	$21\frac{3}{4}$	$22\frac{1}{2}$
B	$\frac{1}{4}$	12	$14\frac{1}{2}$	C	$\frac{1}{2}$ X $\frac{1}{4}$	26	32
B	$\frac{1}{4}$ X $\frac{3}{8}$	16	---	C	$\frac{1}{2}$ X $\frac{3}{4}$	$29\frac{1}{2}$	$33\frac{1}{2}$
B	$\frac{3}{8}$ X $\frac{1}{4}$ X $\frac{1}{4}$	15	---	C	$\frac{1}{2}$ X 1	$34\frac{1}{2}$	---
B	$\frac{3}{8}$ X $\frac{1}{4}$ X $\frac{3}{8}$	$18\frac{1}{2}$	---	C	$\frac{1}{2}$ X $1\frac{1}{4}$	75	---
A	$\frac{3}{8}$ X $\frac{1}{8}$	16	---	C	$\frac{3}{4}$ X $\frac{3}{8}$ X $\frac{3}{8}$	29	---
B	$\frac{3}{8}$ X $\frac{1}{4}$	15	---	C	$\frac{3}{4}$ X $\frac{3}{8}$ X $\frac{1}{2}$	$35\frac{1}{2}$	---
B	$\frac{3}{8}$ X $\frac{1}{2}$	$16\frac{1}{2}$	17	C	$\frac{3}{4}$ X $\frac{3}{8}$ X $\frac{3}{4}$	$30\frac{1}{2}$	---
B	$\frac{3}{8}$ X $\frac{3}{4}$	24	---	C	$\frac{3}{4}$ X $\frac{1}{2}$ X 1	50	---
B	$\frac{3}{8}$ X 1	27	---	C	$\frac{3}{4}$ X $\frac{1}{2}$ X $\frac{1}{4}$	33	---
C	$\frac{1}{2}$ X $\frac{1}{4}$ X $\frac{1}{4}$	---	---	C	$\frac{3}{4}$ X $\frac{1}{2}$ X $\frac{3}{8}$	29	---
C	$\frac{1}{2}$ X $\frac{1}{4}$ X $\frac{1}{2}$	$18\frac{1}{2}$	---	C	$\frac{3}{4}$ X $\frac{1}{2}$ X $\frac{1}{2}$	34	$38\frac{1}{2}$
C	$\frac{1}{2}$ X $\frac{3}{8}$ X $\frac{1}{2}$	22	---	C	$\frac{3}{4}$ X $\frac{1}{2}$ X $\frac{3}{4}$	38	$49\frac{1}{2}$
C	$\frac{1}{2}$ X $\frac{3}{8}$ X $\frac{3}{4}$	20	---	C	$\frac{3}{4}$ X $\frac{1}{2}$ X 1	$50\frac{1}{2}$	---
C	$\frac{1}{2}$ X $\frac{3}{8}$ X $\frac{3}{8}$	$24\frac{1}{2}$	---	C	$\frac{3}{4}$ X $\frac{1}{4}$	$29\frac{1}{2}$	---
C	$\frac{1}{2}$ X $\frac{3}{8}$ X $\frac{1}{2}$	$26\frac{1}{2}$	---	C	$\frac{3}{4}$ X $\frac{3}{8}$	$30\frac{1}{2}$	42

## MALLEABLE IRON FITTINGS

## TEES—Continued

## LIST OF SIZES AND WEIGHTS

Class.	Size.	Weight Plain.	Weight Beaded.	Class.	Size.	Weight Plain.	Weight Beaded.
		Lbs. per 100	Lbs. per 100			Lbs. per 100	Lbs. per 100
C	$\frac{3}{4}$ x $\frac{1}{2}$	34	52	D	$1\frac{1}{2}$ x 1 x $\frac{3}{4}$	81	----
D	$\frac{3}{4}$ x 1	41	49	D	$1\frac{1}{2}$ x 1 x 1	91	----
D	$\frac{3}{4}$ x $1\frac{1}{4}$	34	$59\frac{1}{2}$	D	$1\frac{1}{2}$ x 1 x $1\frac{1}{4}$	94	----
D	$\frac{3}{4}$ x $1\frac{1}{2}$	64	----	D	$1\frac{1}{2}$ x 1 x $1\frac{1}{2}$	109	183
D	$\frac{3}{4}$ x $1\frac{3}{4}$	69	----	D	$1\frac{1}{2}$ x $1\frac{1}{4}$ x $\frac{3}{4}$	82	----
C	1 x $\frac{3}{8}$ x $\frac{1}{2}$	$44\frac{1}{2}$	----	D	$1\frac{1}{2}$ x $1\frac{1}{4}$ x 1	91	139
C	1 x $\frac{3}{8}$ x $\frac{3}{4}$	$47\frac{1}{2}$	----	D	$1\frac{1}{2}$ x $1\frac{1}{4}$ x $1\frac{1}{4}$	96	164
C	1 x $\frac{3}{8}$ x 1	54	----	D	$1\frac{1}{2}$ x $1\frac{1}{4}$ x $1\frac{1}{2}$	110	174
C	1 x $\frac{3}{8}$ x $1\frac{1}{4}$	$67\frac{1}{2}$	----	D	$1\frac{1}{2}$ x $\frac{3}{8}$	85	$114\frac{1}{2}$
C	1 x $\frac{1}{2}$ x $\frac{3}{8}$	$37\frac{1}{2}$	----	D	$1\frac{1}{2}$ x $\frac{1}{2}$	$77\frac{1}{2}$	$85\frac{1}{2}$
C	1 x $\frac{1}{2}$ x $\frac{1}{2}$	42	52	D	$1\frac{1}{2}$ x $\frac{3}{4}$	$91\frac{1}{2}$	$120\frac{1}{2}$
C	1 x $\frac{1}{2}$ x $\frac{3}{4}$	$40\frac{1}{2}$	----	D	$1\frac{1}{2}$ x 1	102	150
C	1 x $\frac{1}{4}$ x 1	----	----	D	$1\frac{1}{2}$ x $1\frac{1}{4}$	102	155
C	1 x $\frac{1}{2}$ x 1	48	----	D	$1\frac{1}{2}$ x 2	126	171
C	1 x $\frac{1}{2}$ x $1\frac{1}{4}$	68	----	D	2 x $\frac{1}{2}$ x 2	$131\frac{1}{2}$	212
C	1 x $\frac{3}{4}$ x $\frac{3}{8}$	$39\frac{1}{2}$	54	D	2 x $\frac{3}{4}$ x 2	250	273
C	1 x $\frac{3}{4}$ x $\frac{1}{2}$	44	58	D	2 x 1 x 2	203	267
D	1 x $\frac{3}{4}$ x $\frac{3}{4}$	38	65	D	2 x $1\frac{1}{4}$ x $1\frac{1}{4}$	221	273
D	1 x $\frac{3}{4}$ x 1	49	78	D	2 x $1\frac{1}{4}$ x $1\frac{1}{2}$	172	203
D	1 x $\frac{3}{4}$ x $1\frac{1}{4}$	$67\frac{1}{2}$	----	D	2 x $1\frac{1}{4}$ x 2	146	232
C	1 x $\frac{1}{4}$	37	44	D	2 x $1\frac{1}{2}$ x $1\frac{1}{2}$	203	270
C	1 x $\frac{3}{8}$	35	47	D	2 x $1\frac{1}{2}$ x $1\frac{1}{4}$	155	208
C	1 x $\frac{1}{2}$	$41\frac{1}{2}$	44	D	2 x $1\frac{1}{2}$ x $1\frac{1}{2}$	169	210
D	1 x $\frac{3}{4}$	$50\frac{1}{2}$	$68\frac{1}{2}$	D	2 x $1\frac{1}{2}$ x 2	214	264
D	1	53	75	D	2 x $\frac{3}{8}$	118	124
D	1 x $1\frac{1}{4}$	$60\frac{1}{2}$	$96\frac{1}{2}$	D	2 x $\frac{1}{2}$	120	163
D	1 x $1\frac{1}{2}$	109	----	D	2 x $\frac{3}{4}$	107	165
D	$1\frac{1}{4}$ x $\frac{3}{8}$ x 1	83	----	D	2 x 1	130	175
D	$1\frac{1}{4}$ x $\frac{3}{8}$ x $1\frac{1}{4}$	89	----	D	2 x $1\frac{1}{4}$	152	219
D	$1\frac{1}{4}$ x $\frac{1}{2}$ x 1	83	----	D	2 x $1\frac{1}{2}$	154	217
D	$1\frac{1}{4}$ x $\frac{1}{2}$ x $1\frac{1}{4}$	94	----	D	2 x 2	197	262
D	$1\frac{1}{4}$ x $\frac{3}{4}$ x $\frac{3}{4}$	67	86	D	2 x $2\frac{1}{2}$	----	350
D	$1\frac{1}{4}$ x $\frac{3}{4}$ x 1	72	----	D	$2\frac{1}{2}$ x 1	----	350
D	$1\frac{1}{4}$ x $\frac{3}{4}$ x $1\frac{1}{4}$	89	124	D	$2\frac{1}{2}$ x $1\frac{1}{4}$	----	300
D	$1\frac{1}{4}$ x 1 x $\frac{3}{8}$	56	----	D	$2\frac{1}{2}$ x $1\frac{1}{2}$	----	300
D	$1\frac{1}{4}$ x 1 x $\frac{1}{2}$	47	----	D	$2\frac{1}{2}$ x 2	----	350
D	$1\frac{1}{4}$ x 1 x $\frac{3}{4}$	65	92	D	$2\frac{1}{2}$	----	500
D	$1\frac{1}{4}$ x 1 x 1	74	103	D	3 x 1	----	450
D	$1\frac{1}{4}$ x 1 x $1\frac{1}{4}$	92	132	D	3 x $1\frac{1}{4}$	----	450
D	$1\frac{1}{4}$ x 1 x $1\frac{1}{2}$	109	----	D	3 x $1\frac{1}{2}$	----	450
D	$1\frac{1}{4}$ x $\frac{3}{8}$	63	89	D	3 x 2	----	500
D	$1\frac{1}{4}$ x $\frac{1}{2}$	66	89	D	3 x $2\frac{1}{2}$	----	650
D	$1\frac{1}{4}$ x $\frac{3}{4}$	71	96	D	3	----	750
D	$1\frac{1}{4}$ x 1	80	111	D	$3\frac{1}{2}$ x $2\frac{1}{2}$	----	700
D	$1\frac{1}{4}$	90	115	D	$3\frac{1}{2}$ x 3	----	850
D	$1\frac{1}{4}$ x $1\frac{1}{2}$	89	102	D	$3\frac{1}{2}$	----	1300
D	$1\frac{1}{4}$ x 2	----	206	D	4 x 2	----	1000
D	$1\frac{1}{2}$ x $\frac{1}{2}$ x 1	91	----	D	4 x $2\frac{1}{2}$	----	1100
D	$1\frac{1}{2}$ x $\frac{1}{2}$ x $1\frac{1}{2}$	$113\frac{1}{2}$	----	D	4 x 3	----	1200
D	$1\frac{1}{2}$ x $\frac{3}{4}$ x $1\frac{1}{4}$	90	----	D	4 x $3\frac{1}{2}$	----	1300
D	$1\frac{1}{2}$ x $\frac{3}{4}$ x $1\frac{1}{2}$	114	176	D	4	----	1450

# MALLEABLE IRON FITTINGS

## LIST OF SIZES AND APPROXIMATE WEIGHTS

**DROP TEE  
FEMALE**



**FIG. H-222**

**DROP TEE  
MALE AND FEMALE**



**FIG. H-223**

**LONG DROP TEE**



**FIG. H-224**

With Drop  $2\frac{1}{2}$  Inches Long.

**SERVICE TEE**



**FIG. H-225**

**FIG. H-222—DROP TEES, FEMALE**

Class.	Size.	Drop.	Weight Plain.	Class.	Size.	Drop.	Weight Plain.
			Lbs. per 100.				Lbs. per 100.
B	$\frac{3}{8}$ x $\frac{1}{4}$ x $\frac{1}{4}$		$20\frac{1}{2}$	C	$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{3}{8}$		$37\frac{1}{2}$
B	$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{1}{4}$		21	C	$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{4}$		35
B	$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$		16	C	$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{8}$		34
B	$\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{1}{2}$		$26\frac{1}{2}$	C	$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{1}{2}$		42
B	$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{1}{4}$		21	C	$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{4}$		$49\frac{1}{2}$
B	$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{8}$		27	C	1 x $\frac{3}{4}$ x $\frac{3}{8}$		46
B	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{4}$		$26\frac{1}{2}$	C	1 x 1 x $\frac{3}{8}$		43
B	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{8}$		16	C	1 x 1 x $\frac{1}{2}$		58
B	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$		33	C	1 x 1 x $\frac{3}{4}$		63
B	$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{1}{4}$		31	C	1 x 1 x 1		68

**FIG. H-223—DROP TEES, MALE AND FEMALE**

Class.	Size.	Drop.	Weight Plain.	Class.	Size.	Drop.	Weight Plain.
			Lbs. per 100				Lbs. per 100
B	$\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{3}{8}$		17	C	$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{3}{8}$		33
B	$\frac{3}{8}$ x $\frac{1}{4}$ x $\frac{3}{8}$		$14\frac{1}{2}$	C	$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{8}$		36
B	$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$		$18\frac{1}{2}$	C	1 x $\frac{3}{4}$ x $\frac{3}{8}$		44
B	$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{3}{8}$		$18\frac{3}{4}$	C	1 x 1 x $\frac{3}{8}$		37
B	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{3}{8}$		26				

**FIG. H-224—LONG DROP TEES**

Class.	Size.	Weight, Plain.
		Lbs. per 100.
B	$\frac{3}{8}$ x $\frac{3}{8}$ x $\frac{3}{8}$	$25\frac{1}{2}$

**FIG. H-225—SERVICE TEES**

Class.	Size.	Weight Beaded.	Class.	Size.	Weight Beaded.
		Lbs. per 100.			Lbs. per 100.
C	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$	---	D	$\frac{1}{2}$ x $\frac{3}{4}$ x $\frac{1}{2}$	---
C	$\frac{3}{4}$ x $\frac{3}{4}$ x $\frac{3}{4}$	50	D	$\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{1}{2}$	---
C	1 x $\frac{3}{4}$ x 1	---	D	$\frac{1}{2}$ x 1 x $\frac{1}{2}$	---
D	1 x 1 x 1	80	D	$\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$	---
D	$\frac{1}{4}$ x $\frac{3}{4}$ x $\frac{1}{4}$	120	D	2 x $\frac{1}{2}$ x 2	305
D	$\frac{1}{4}$ x 1 x $\frac{1}{4}$	125	D	2 x 2 x 2	320
D	$\frac{1}{4}$ x $\frac{1}{4}$ x $\frac{1}{4}$	131	D	$\frac{2}{2}$ x $\frac{2}{2}$ x $\frac{2}{2}$	500



# MALLEABLE IRON FITTINGS

## LIST OF SIZES AND APPROXIMATE WEIGHTS

### Side Outlet or Four-Way Tee



FIG. H-226

Class.	Size.	Weights, Lbs. per 100.
B	$\frac{3}{8}$	17
B	$\frac{1}{2}$	28 $\frac{1}{2}$
C	$\frac{3}{4}$	46
C	1	56 $\frac{1}{2}$
C	1 $\frac{1}{4}$	102
C	1 $\frac{1}{2}$	180
C	2	260

### Crosses

The Outlets of a Cross are always the same size, and both denoted by the last figure.

#### CROSS-PLAIN



FIG. H-227

Class.	Size.	Weights, Plain, Lbs. per 100.	Weights, Beaded, Lbs. per 100.	Class.	Size.	Weights, Plain, Lbs. per 100.	Weights, Beaded, Lbs. per 100.
B	$\frac{1}{4}$	13 $\frac{1}{2}$	---	C	1 $\frac{1}{4}$ x $\frac{1}{2}$	69	71 $\frac{1}{2}$
B	$\frac{3}{8}$ x $\frac{1}{4}$	16	---	D	1 $\frac{1}{4}$ x $\frac{3}{4}$	71 $\frac{1}{2}$	86
B	$\frac{1}{2}$ x $\frac{1}{4}$	19 $\frac{1}{2}$	---	D	1 $\frac{1}{4}$ x 1	85	92
B	$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{1}{4}$	22	---	D	1 $\frac{1}{4}$ x 1 $\frac{1}{4}$	100	115
B	$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{1}{2}$	23 $\frac{1}{2}$	---	D	1 $\frac{1}{2}$ x 1 $\frac{1}{4}$ x 1 $\frac{1}{4}$	92	---
B	$\frac{1}{2}$ x $\frac{3}{8}$ x $\frac{1}{2}$	25	---	C	1 $\frac{1}{2}$ x $\frac{3}{4}$	85	---
B	$\frac{1}{2}$ x $\frac{1}{4}$ x $\frac{1}{2}$	13 $\frac{1}{2}$	---	C	1 $\frac{1}{2}$ x $\frac{1}{2}$	87	94
B	$\frac{1}{2}$ x $\frac{3}{8}$	23 $\frac{1}{2}$	---	D	1 $\frac{1}{2}$ x $\frac{3}{4}$	108	138
B	$\frac{1}{2}$ x $\frac{1}{2}$	29 $\frac{1}{2}$	33 $\frac{1}{2}$	D	1 $\frac{1}{2}$ x 1	100	167 $\frac{1}{2}$
B	$\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{1}{2}$	34 $\frac{1}{2}$	---	D	1 $\frac{1}{2}$ x 1 $\frac{1}{4}$	121	155
B	$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{1}{2}$	26	---	D	1 $\frac{1}{2}$	142	157
B	$\frac{3}{4}$ x $\frac{1}{2}$ x $\frac{1}{2}$	36 $\frac{1}{2}$	---	C	2 x $\frac{1}{2}$	101	200
B	$\frac{3}{4}$ x $\frac{3}{8}$ x $\frac{1}{2}$	32	34	D	2 x $\frac{3}{4}$	122	198
B	$\frac{3}{4}$ x $\frac{1}{2}$	38 $\frac{1}{2}$	39	D	2 x 1	118	215
C	$\frac{3}{4}$ x $\frac{1}{2}$	37 $\frac{1}{2}$	39	D	2 x 1 $\frac{1}{4}$	162	210
B	1 x $\frac{1}{2}$ x $\frac{3}{8}$	27	---	D	2 x 1 $\frac{1}{2}$	149	236
B	1 x $\frac{3}{4}$ x $\frac{3}{8}$	39	---	D	2	218	300
B	1 x $\frac{3}{4}$ x $\frac{1}{2}$	50 $\frac{1}{2}$	---	D	2 $\frac{1}{2}$ x 1 $\frac{1}{2}$	---	350
B	1 x $\frac{3}{4}$ x $\frac{3}{4}$	54 $\frac{1}{2}$	---	D	2 $\frac{1}{2}$ x 2	---	400
B	1 x $\frac{3}{8}$	42	46	D	2 $\frac{1}{2}$	---	550
B	1 x $\frac{1}{2}$	32	49	D	3 x 2	---	600
B	1 x $\frac{3}{4}$	37	58	D	3 x 2 $\frac{1}{2}$	---	800
C	1	59	79	D	3	---	888
D	1 $\frac{1}{4}$ x 1 x $\frac{3}{4}$	73 $\frac{1}{2}$	---	D	3 $\frac{1}{2}$	---	950
D	1 $\frac{1}{4}$ x 1 x 1	83	---	D	4	---	1600
C	1 $\frac{1}{4}$ x $\frac{3}{8}$	65	74				

#### CROSS-BEADED



FIG. H-228

# MALLEABLE IRON FITTINGS

## LIST OF SIZES AND APPROXIMATE WEIGHTS

### PLAIN



FIG. H-229

### BEADED



FIG. H-230

## Y Branches

Class	Size	Weight lbs. per 100
C-----	2 x1½x1½ Plain	200
C-----	2 x1½x2 "	290
C-----	2½x2 x2 "	370
C-----	2½x2 x2½ "	520
C-----	2½x1½ "	360
C-----	2½x2 "	430
C-----	2½ "	520
C-----	2½x2 x1½ "	---
C-----	3 x2 x2 "	---
C-----	3 x2½x2 "	---
C-----	3 "	---

Class	Size	Weight lbs. per 100
B-----	1½ Beaded	35
B-----	¾x 1½ "	45
B-----	¾x 1½ "	60
C-----	1 x 1½ "	---
C-----	1 x ¾ "	72
C-----	1 "	95
C-----	1¼x1 "	130
C-----	1¼ "	140
C-----	1½x1 "	150
C-----	1½x1¼ "	170
C-----	1½ Pl'n or Be'd'd	215
C-----	2 x1 Beaded	190
C-----	2 x1¼ "	220
C-----	2 x1½ Pl'n or Be'd'd	210
C-----	2 "	290
C-----	3 Beaded	---
C-----	4 Beaded	---

## RETURN BENDS

### CLOSE PATTERN



FIG. H-231

FIG. H-231—CLOSE PATTERN

### OPEN PATTERN



FIG. H-232

FIG. H-232—OPEN PATTERN

Class	Size	Weight lbs. per 100
B-----	1½	30½
C-----	¾	54
C-----	1	88
D-----	1¼	152
D-----	1½	228
D-----	2	333
D-----	2½	625

Class	Size	Weight lbs. per 100
B-----	1½	35
C-----	¾	104
C-----	1	134
D-----	1¼	202½
D-----	1½	251
D-----	2	454
D-----	2½	832

# MALLEABLE IRON FITTINGS

## LIST OF SIZES AND APPROXIMATE WEIGHTS

PLAIN

Reducing Couplings

BEADED



FIG. H-233



FIG. H-234

Class.	Size.	Weight lbs. per 100.	Class.	Size.	Weight lbs. per 100.	Class.	Size.	Weight lbs. per 100.
A	$\frac{1}{4}$ x $\frac{1}{8}$	6 $\frac{1}{2}$	D	$1\frac{1}{4}$ x 1	53	D	$2\frac{1}{2}$ x $1\frac{1}{2}$	250
A	$\frac{3}{8}$ x $\frac{1}{8}$	9	C	$1\frac{1}{2}$ x $\frac{3}{8}$	--	D	$2\frac{1}{2}$ x 2	213
B	$\frac{3}{8}$ x $\frac{1}{4}$	7 $\frac{1}{2}$	C	$1\frac{1}{2}$ x $\frac{1}{2}$	68	D	3 x 1	325
B	$\frac{1}{2}$ x $\frac{1}{4}$	12	D	$1\frac{1}{2}$ x $\frac{3}{4}$	69	D	3 x $1\frac{1}{4}$	338
B	$\frac{1}{2}$ x $\frac{3}{8}$	14	D	$1\frac{1}{2}$ x 1	59	D	3 x $1\frac{1}{2}$	350
B	$\frac{3}{4}$ x $\frac{1}{4}$	21	D	$1\frac{1}{2}$ x $1\frac{1}{4}$	70	D	3 x 2	320
B	$\frac{3}{4}$ x $\frac{3}{8}$	21	C	2 x $\frac{3}{8}$	85	D	3 x $2\frac{1}{2}$	325
C	$\frac{3}{4}$ x $\frac{1}{2}$	22	C	2 x $\frac{1}{2}$	90	D	$3\frac{1}{2}$ x $1\frac{1}{2}$	513
C	1 x $\frac{1}{4}$	33	D	2 x $\frac{3}{4}$	102	D	$3\frac{1}{2}$ x 2	538
C	1 x $\frac{3}{8}$	33	D	2 x 1	125 $\frac{1}{2}$	D	$3\frac{1}{2}$ x $2\frac{1}{2}$	---
C	1 x $\frac{1}{2}$	36	D	2 x $1\frac{1}{4}$	91	D	$3\frac{1}{2}$ x 3	545
C	1 x $\frac{3}{4}$	31	D	2 x $1\frac{1}{2}$	108 $\frac{1}{2}$	D	4 x 2	650
C	$1\frac{1}{4}$ x $\frac{3}{8}$	54 $\frac{1}{2}$	D	$2\frac{1}{2}$ x $\frac{3}{4}$	225	D	4 x $2\frac{1}{2}$	700
C	$1\frac{1}{4}$ x $\frac{1}{2}$	53	D	$2\frac{1}{2}$ x 1	182	D	4 x 3	650
D	$1\frac{1}{4}$ x $\frac{3}{4}$	47	D	$2\frac{1}{2}$ x $1\frac{1}{4}$	225	D	4 x $3\frac{1}{2}$	682



## Couplings

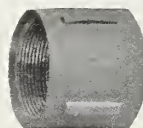


FIG. H-235—RIGHT HAND

FIG. H-236—RIGHT AND LEFT

Class.	Size.	Weight lbs. per 100.	Class.	Size.	Weight lbs. per 100.
A	$\frac{1}{8}$	$4\frac{1}{4}$	B	$\frac{1}{4}$	9
B	$\frac{1}{4}$	7	B	$\frac{3}{8}$	13
B	$\frac{3}{8}$	10 $\frac{1}{2}$	C	$\frac{1}{2}$	17 $\frac{1}{2}$
C	$\frac{1}{2}$	17	C	$\frac{3}{4}$	29
C	$\frac{3}{4}$	25	D	1	50 $\frac{1}{2}$
D	1	40 $\frac{1}{2}$	D	$1\frac{1}{4}$	72
D	$1\frac{1}{4}$	53	D	$1\frac{1}{2}$	106
D	$1\frac{1}{2}$	80	D	2	152
D	2	127			
D	$2\frac{1}{2}$	250			
D	3	---			
D	$3\frac{1}{2}$	---			
D	4	675			

# MALLEABLE IRON FITTINGS

## LIST OF SIZES AND WEIGHTS

PLAIN

Caps

BEADED

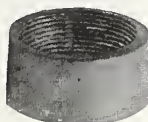


FIG. H-237

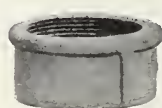


FIG. H-238

Class.	Size.	Weight, Lbs. per 100.	Class.	Size.	Weight, Lbs. per 100.
B	$\frac{1}{4}$	5	D	$1\frac{1}{2}$	70
B	$\frac{3}{8}$	8	D	2	97
C	$\frac{1}{2}$	$11\frac{1}{2}$	D	$2\frac{1}{2}$	219
C	$\frac{3}{4}$	19	D	3	350
C	1	30	D	$3\frac{1}{2}$	575
D	$1\frac{1}{4}$	40	D	4	782

HEXAGON

Lock Nuts

ROUND

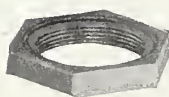


FIG. H-239



FIG. H-240

Class.	Size.	Weight, Lbs. per 100.	Class.	Size.	Weight, Lbs. per 100.
B	$\frac{1}{4}$	3	C	$1\frac{1}{4}$	27
B	$\frac{3}{8}$	$5\frac{1}{2}$	D	$1\frac{1}{2}$	34
B	$\frac{1}{2}$	$7\frac{1}{2}$	D	2	$48\frac{1}{2}$
C	$\frac{3}{4}$	$11\frac{1}{2}$	D	$2\frac{1}{2}$	107
C	1	19	D	3	139

HEXAGON

Bushings

FACED

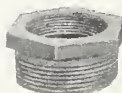


FIG. H-241

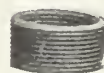


FIG. H-242

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Black, each	.04	.04	.05	.06	.07	.09	.14	.21
Galvanized, each	.08	.08	.10	.12	.14	.18	.28	.42
Black, Faced, each	.08	.09	.11	.13	.17	.22	.32	.48

# MALLEABLE IRON FITTINGS

## LIST OF SIZES AND APPROXIMATE WEIGHTS

### Chandelier Hooks

MALE



FIG. H-243

FEMALE



FIG. H-244

### Chandelier Loops

MALE



FIG. H-245

FEMALE



FIG. H-246

Class.	Size.	Weight lbs. per 100.
B	$\frac{3}{8}$	19
B	$\frac{1}{2}$	22 $\frac{1}{2}$

Class.	Size.	Weight lbs. per 100.
B	$\frac{3}{8}$	19
B	$\frac{1}{2}$	22 $\frac{1}{2}$

Class.	Size.	Weight lbs. per 100.
B	$\frac{3}{8}$	16 $\frac{1}{2}$
B	$\frac{1}{2}$	20 $\frac{1}{2}$

Class.	Size.	Weight lbs. per 100.
B	$\frac{3}{8}$	16 $\frac{1}{2}$

### Waste Nut



FIG. H-247

### Wall Plate



FIG. H-248

### Extension Piece

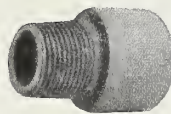


FIG. H-249

FIG. H-247—WASTE NUTS

Class.	Size.	Weight lbs. per 100.
B	$\frac{1}{4}$	3 $\frac{1}{2}$
B	$\frac{3}{8}$	6
B	$\frac{1}{2}$	7 $\frac{3}{4}$

Class.	Size.	Weight lbs. per 100.
B	$\frac{3}{4}$	10
C	1	13 $\frac{1}{2}$
C	1 $\frac{1}{4}$	17

FIG. H-248—WALL PLATES

Class.	Size.	Weight lbs. per 100.
B	$\frac{3}{8}$	7 $\frac{1}{2}$

FIG. H-249—EXTENSION PIECES

Class.	Size.	Weight lbs. per 100.
B	$\frac{3}{8}$ x $\frac{3}{8}$	9 $\frac{1}{2}$
B	$\frac{1}{2}$ x $\frac{1}{2}$	15

Class.	Size.	Weight lbs. per 100.
C	$\frac{3}{4}$ x $\frac{3}{4}$	22 $\frac{1}{2}$
C	1 x 1	32 $\frac{1}{2}$



## MALLEABLE IRON UNIONS

### STANDARD



FIG. H-250

### Standard Unions

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Black, each	.18	.18	.20	.22	.27	.33	.46	.58	.75	1.55	2.10	3.65	4.35
Galvanized, each	.27	.27	.30	.33	.40	.50	.70	.90	1.15	2.35	3.15	5.50	6.50

### TWO-THIRD



FIG. H-251

### Two-Third Unions

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Black, each	.12	.14	.16	.19	.22	.30	.40	.50	1.00	1.40	2.40	3.00
Galvanized, each	.18	.20	.22	.25	.35	.50	.60	.75	1.60	2.10	3.70	4.35

## JEFFERSON UNION AND FLANGE

## Union Coupling

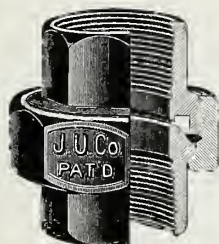


FIG. H-252

## Flange Union

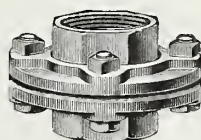


FIG. H-253

FIG. H-252—UNION COUPLINGS

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Black, each	.30	.40	.50	.60	.80	1.20	1.60	2.00	3.20	4.80
Galvanized, each	.45	.60	.75	.90	1.20	1.80	2.40	3.00	4.80	7.20

FIG. H-253—FLANGE UNIONS

Size, inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	7	8	9	10
Black, each	.80	1.20	1.60	2.00	3.20	4.80	6.00	7.50	10.00	12.50	15.00	18.00	21.60	28.80

## CHICAGO UNIONS

## BALL SEAT—GROUND JOINT

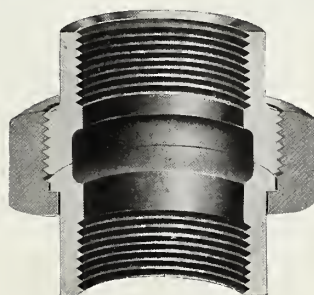


FIG. H-254

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Each	.19	.22	.27	.40	.48	.66	.80	1.14	2.10	2.65
Each with Galvanized Ring	.23	.26	.34	.49	.60	.82	1.10	1.40	2.75	3.50

# "KEWANEE" BRASS AND IRON UNIONS

## Ground Ball Joint

FEMALE

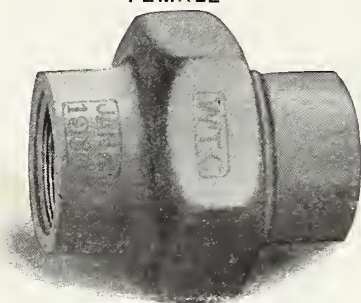


FIG. H-255

MALE AND FEMALE

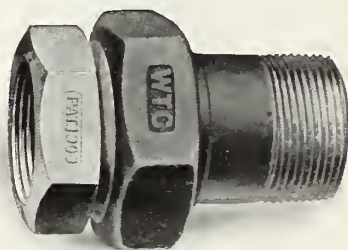


FIG. H-256

FIGS. H-255 AND H-256

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Black, each	.18	.19	.22	.27	.40	.48	.66	.80	1.14	2.10	2.65	4.30	5.50
Galvanized, each	.22	.23	.26	.34	.49	.60	.82	1.10	1.40	2.75	3.50	6.30	7.50

## DART UNIONS

SCREWED

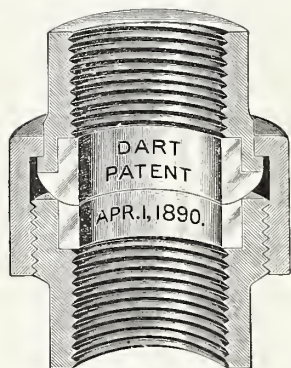


FIG. H-257

FLANGED

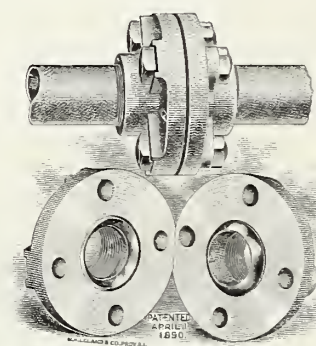


FIG. H-259

Bronze Seats,  
Ground  
Joints, Ball  
Bearings

FIG. H-257—SCREWED

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Black, each	.30	.30	.40	.50	.60	.80	1.20	1.60	2.00	3.20	4.80
Galvanized, each	.45	.45	.60	.75	.90	1.20	1.80	2.40	3.00	4.80	6.20

FIG. H-258—FLANGED WITH BOLTS AND NUTS

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Black, each	.60	.80	1.20	1.60	2.00	3.20	4.80	6.00
Size, inches	4	$4\frac{1}{2}$	5	6	7	8	9	10
Black, each	7.50	8.75	10.00	12.50	15.00	18.00	21.60	28.80

## MALLEABLE UNION ELBOWS

WITH FEMALE UNION



FIG. H-259

WITH MALE UNION

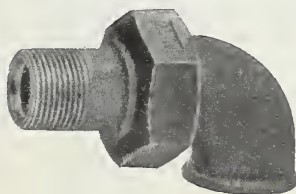


FIG. H-260

FIG. H-259

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
With Female Union, Black, each	.42	.54	.63	.90	1.05	1.55	2.85
With Female Union, Galvanized, each	.63	.81	.95	1.35	1.58	2.35	4.30

FIG. H-260

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
With Male Union, Black, each	.48	.62	.72	1.05	1.20	1.80	3.30
With Male Union, Galvanized, each	.72	.93	1.08	1.60	1.80	2.70	4.95

## MALLEABLE UNION TEES

WITH FEMALE UNION



FIG. H-261

WITH MALE UNION



FIG. H-262

FIG. H-261

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
With Female Union, Black, each	.45	.57	.70	.95	1.15	1.70	3.20
With Female Union, Galvanized, each	.68	.86	1.05	1.45	1.75	2.55	4.80

FIG. H-262

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
With Male Union, Black, each	.52	.65	.80	1.10	1.30	1.95	3.70
With Male Union, Galvanized, each	.78	1.00	1.20	1.65	1.95	2.95	5.55

Female Union Elbows and Tees will be sent, when Male or Female is not specified.

## OFFSET REDUCER

MALLEABLE IRON

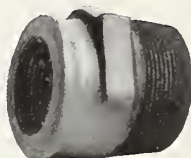


FIG. H-263

Size, inches.....	1 x 3/4	1 1/4 x 1	1 1/2 x 1 1/4	2 x 1 1/2	2 1/2 x 2	3 x 2 1/2
Black, each.....	.60	.70	.90	1.10	1.80	2.50
Size, inches.....	3 1/2 x 3	4 x 3	4 x 3 1/2	4 1/2 x 4	5 x 4	5 x 4 1/2
Black, each.....	\$3.00	4.00	4.00	5.00	6.00	6.00

These fittings prevent water pockets and can be used to advantage in coils and water backs where air pockets would result from reducing with ordinary fittings.

## Cross-Over—Back Outlet

## Cross-Over



FIG. H-264

Size, inches.....	1/2	3/4	1
Black, each.....	.20	.30	.45
Galvanized, each.....	.25	.40	.60



FIG. H-265

Size, inches.....	1/2	3/4	1
Black, each.....	.23	.38	.55
Galvanized, each.....	.30	.50	.75

## Cross-Over Tee



FIG. H-266

Size, inches.....	1/2	3/4	1
Black, each.....	.35	.50	.75
Galvanized, each.....	.50	.70	1.00



## TEES

## Wash Tray Tee

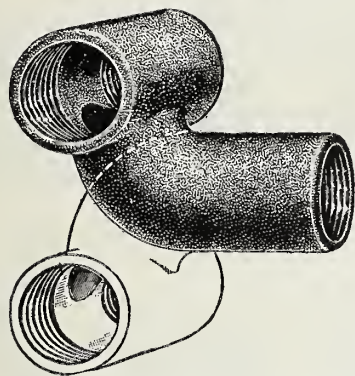


FIG. H-267

Size, inches.....	$\frac{1}{2}$ x $\frac{3}{4}$
Stand'd Length, Galv., each	.30
Ex. Long Length, Galv. each	.35

## Range Boiler Union Tee

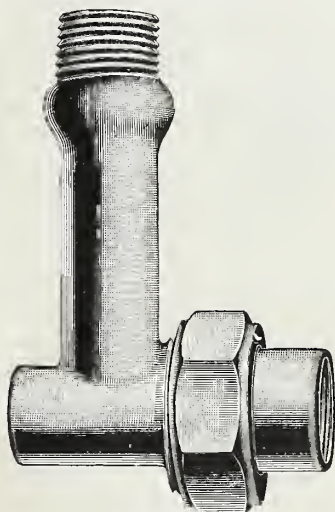


FIG. H-268

Galvanized, each..... .60

## FLAGG WATER BACK TEE

MALLEABLE IRON

## Tee Attached

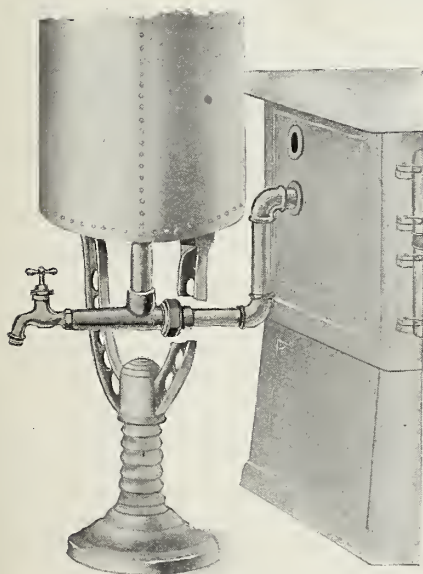


FIG. H-270

## Tee



FIG. H-269

## NO. 11

1 in. Inlet  
 $\frac{1}{2}$  in. Sediment end  
 $\frac{3}{4}$  in. Union

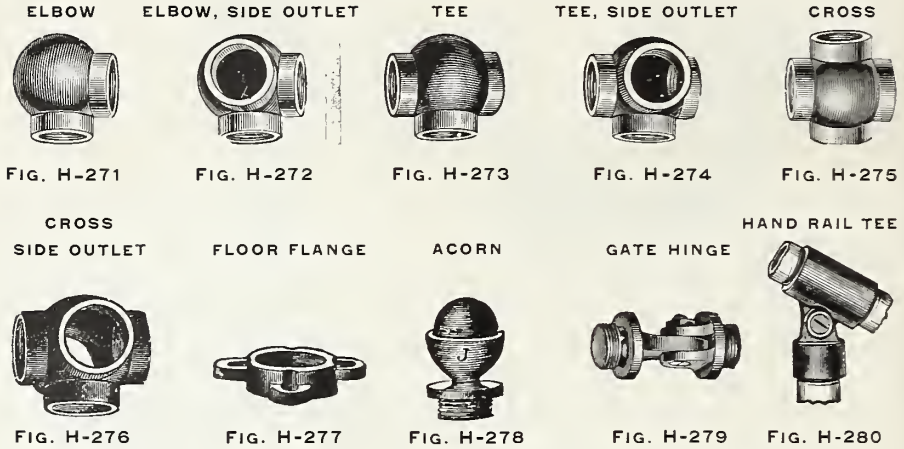
## NO. 12

$\frac{3}{4}$  in. Inlet  
 $\frac{1}{2}$  in. Sediment end  
 $\frac{3}{4}$  in. Union

Each ..... .80

NOTE.—No. 11 will be furnished unless otherwise specified.

# RAILING FITTINGS



Railing Fittings will be furnished with all **RIGHT HAND** Threads unless otherwise specified.

An extra charge of 25% will be made for Right and Left, or Left Hand, Fittings. As the Fittings do not need to be steam or water tight, a satisfactory job can be made by running a Left Hand Tap into any Right Hand Outlet.

## Malleable Iron Railing Fittings

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. H-271—Elbow, each	.15	.18	.20	.35	.45	.72	1.00	1.50
Fig. H-272—Elbow, Side Outlet, each	.20	.23	.25	.40	.50	.80	1.15	1.70
Fig. H-273—Tee, each	.20	.23	.25	.40	.50	.75	1.20	1.90
Fig. H-274—Tee, Side Outlet, each	.30	.33	.35	.45	.55	.90	1.40	2.15
Fig. H-275—Cross, each	.30	.33	.35	.45	.58	1.00	1.50	2.25
Fig. H-276—Cross, Side Outlet, each	.35	.38	.40	.50	.65	1.35	1.75	2.60
Fig. H-277—Floor Flange, each	.14	.15	.15	.20	.28	.30	.50	.75
Fig. H-278—Acorn, either Male or Female, each	.16	.18	.20	.25	.35	.90	1.00	1.50
Fig. H-279—Gate Hinge, each	.35	.40	.45	.55	.80	1.00	---	---
Fig. H-280—Hand Rail Tee, each	---	.45	.65	1.00	1.15	1.45	---	---

Galvanized Fittings double the above list prices.

## Polished Brass Railing Fittings

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. H-271—Elbow, each	.40	.60	.80	1.20	1.60	2.20	4.00	7.00
Fig. H-272—Elbow, Side Outlet, each	.75	1.00	1.45	1.65	2.05	2.90	6.00	8.50
Fig. H-273—Tee, each	.60	.85	1.10	1.70	2.00	2.75	6.00	8.50
Fig. H-274—Tee, Side Outlet, each	1.05	1.25	1.50	2.00	2.30	3.25	7.00	10.00
Fig. H-275—Cross, each	1.05	1.25	1.50	2.00	2.30	3.25	7.00	10.00
Fig. H-276—Cross, Side Outlet, each	1.20	1.45	1.70	2.12	2.60	3.50	8.00	11.50
Fig. H-277—Floor Flange, each	.26	.35	.40	.70	.95	1.30	2.00	3.00
Fig. H-278—Acorn, either Male or Female, each	.40	.65	.80	.90	1.20	2.50	5.50	7.00
Fig. H-279—Gate Hinge, each	.90	1.30	1.50	1.90	2.25	3.25	---	---

## RAILING FITTINGS

## 45° ANGLE MALLEABLE IRON RAILING FITTINGS



FIG. H-281



FIG. H-282



FIG. H-283



FIG. H-284



FIG. H-285

Size, inches	1	1 1/4	1 1/2	2	2 1/2	3
Fig. H-281—Elbow, each	.40	.70	.90	1.44	---	---
Side Outlet, not illustrated, each	.50	.80	1.00	1.60	---	---
Fig. H-282—Elbow, each	.45	.75	.95	1.60	---	---
Side Outlet, not illustrated, each	.55	.85	1.05	1.75	---	---
Fig. H-283—Tee, each	.50	.80	1.00	1.65	---	---
Side Outlet, not illustrated, each	.60	.90	1.10	1.75	---	---
Fig. H-284—Cross, each	.60	.90	1.10	1.75	---	---
Side Outlet, not illustrated, each	.80	1.10	1.25	2.00	---	---
Fig. H-285—Floor Flange, each	.40	.50	.60	.70	1.00	1.25

CAST IRON  
COUNTER BRACKET

Always furnished tapped right hand unless otherwise ordered.  
Right and left or left hand charged at 25 per cent. additional.  
Angle Railing Fittings can be furnished in Brass.  
Galvanized Fittings double the above list prices.



FIG. H-286

## BRASS ACORN CAP



FIG. H-287

## FIG. H-286—COUNTER BRACKETS

Size, inches	3/4	1	1 1/4
Each	.25	.30	.50

## FIG. H-287—FINISHED BRASS ACORN CAPS

Size, inches	3/4	1	1 1/4
Each	.20	.25	.35

We illustrate below two popular style Railings as erected with these Fittings

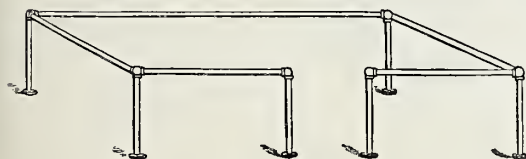


FIG. H-288

A neat and simple gate can be made by reducing with a bushing the outlets of the fittings on each side of the passageway, and then using a smaller size pipe to slide back and forward inside of the top rail, with a pin to prevent its running back too far. See dotted line in cut, Fig. H-289. Where fittings are required to have both right and left hand outlets, please fully describe which outlets are wanted right hand and which left hand.

To construct a railing two pipes high, the upper outlet of all fittings used in lower pipes should be tapped with LEFT-HAND THREAD.

As the fittings are not required to be steam or water tight, a sufficiently clean thread to screw up well and make a good job can be made by running a LEFT-HAND TAP into any outlet tapped RIGHT HAND.

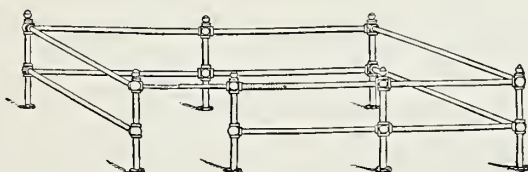


FIG. H-289

## RAILING FITTINGS

## Adjustable Pattern

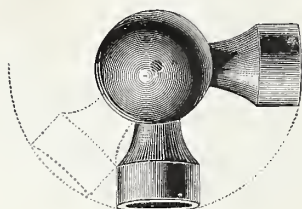


FIG. H-290

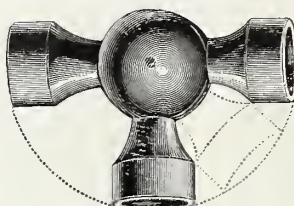


FIG. H-291

Adjustable Railing Fittings—by means of which almost any angle may be obtained in Railings for stairs and other places requiring a deviation from horizontal or perpendicular lines which would otherwise require special patterns to attain the same results.

## IRON FITTINGS

Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
Fig. H-290—Each	\$1.10	1.25	1.70	2.25
Fig. H-291—Each	1.30	1.50	2.00	2.50

## POLISHED BRASS FITTINGS

Fig. H-290—Each	\$2.75	3.15	4.25	5.65
Fig. H-291—Each	3.25	3.75	5.00	6.25

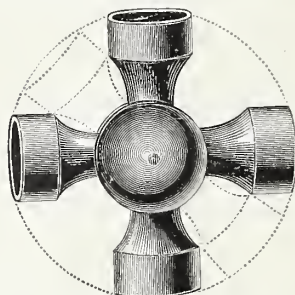


FIG. H-292

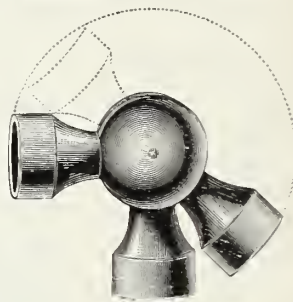


FIG. H-293

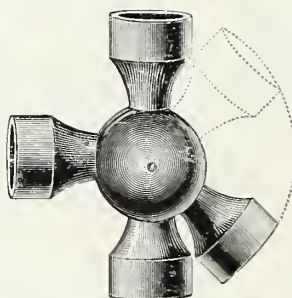


FIG. H-294

## IRON FITTINGS

Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
Fig. H-292—Each	\$1.50	1.75	2.35	2.75
Fig. H-293—Each	1.30	1.60	2.15	2.50
Fig. H-294—Each	1.50	1.85	2.50	2.75

## POLISHED BRASS FITTINGS

Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
Fig. H-292—Each	\$3.75	4.40	5.95	6.90
Fig. H-293—Each	3.25	4.00	5.40	6.25
Fig. H-294—Each	3.75	4.65	6.25	6.90



## BRASS AND COPPER PIPE

## Iron Pipe Sizes



FIG. H-295

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Inside Diameter	.27	.36	.49	.62	.82
Outside Diameter	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$1\frac{1}{8}$
Length, feet	12	12	12	12	12
Approximate Weight, per foot, Brass	.25	.43	.62	.90	1.25
Approximate Weight, per foot, Copper	.26	.45	.65	.95	1.31

Size, inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Inside Diameter	1.04	1.38	1.61	2.06	2.46
Outside Diameter	$1\frac{5}{16}$	$1\frac{3}{8}$	$1\frac{7}{8}$	$2\frac{3}{8}$	$2\frac{7}{8}$
Length, feet	12	12	12	12	12
Approximate Weight, per foot, Brass	1.70	2.50	3.00	4.00	5.75
Approximate Weight, per foot, Copper	1.79	2.63	3.15	4.20	6.04

Size, inches	3	$3\frac{1}{2}$	4	5	6
Inside Diameter	3.06	3.50	4.02	5.04	6.06
Outside Diameter	$3\frac{1}{2}$	4	$4\frac{1}{2}$	$5\frac{9}{16}$	$6\frac{5}{8}$
Length, feet	12	12	12	12	12
Approximate Weight, per foot, Brass	8.30	10.90	12.70	15.75	18.31
Approximate Weight, per foot, Copper	8.72	11.45	13.33	16.54	19.23

Prices are net extra in additional to the Base Prices.

Iron Pipe, size	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Price per lb. advance on base price	.08	.07	.02	.01

Iron Pipe, size-----	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	
Price per lb. advance on base price-----	BASE PRICE								.01	.02	.04	.06	.07

Copper Pipe, 4 cents per pound additional.

## Write for Prices on

Seamless Drawn Tubing

Brazed Tubing

Nickel Silver Tubing

Brass Rods

Roll and Sheet Brass

Brass and Copper Wire

Roll and Sheet German Silver

German Silver Wire, etc., etc.



# BRASS FITTINGS

## Iron Pipe Thread

ELBOW

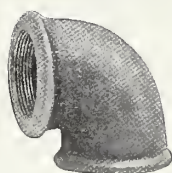


FIG. H-296

45° ELBOW



FIG. H-297

SIDE OUTLET ELBOW

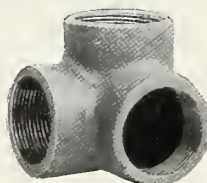


FIG. H-298

STREET ELBOW



FIG. H-299

### ROUGH

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Elbows, each	.12	.17	.21	.28	.35	.50	.85	1.10	1.50	3.50	4.50	7.00	10.00
Elbows, Reducing, each		.22	.26	.35	.45	.62	1.10	1.40	1.90	4.40	5.65	8.75	12.50
Elbows, 45°, each		.25	.30	.40	.50	.75	1.25	1.65	2.25	5.25	6.75		
Elbows, Side Outlet, each			.30	.40	.60	.85	1.20	1.60					
Street Elbows, each			.35	.55	.75	1.00	1.80	2.50	3.25				

DROP ELBOW

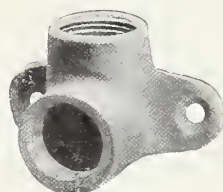


FIG. H-300

TEE



FIG. H-301

DROP TEE



FIG. H-302

### ROUGH

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Drop Elbows, each		.20	.30	.40	.60	.85	1.20	1.90	2.50				
Tees, each	.15	.20	.30	.40	.50	.75	1.00	1.30	1.75	4.00	5.50	9.00	13.00
Tees, Reducing, each		.25	.38	.50	.63	.95	1.25	1.65	2.20	5.00	6.90	11.25	16.25
Drop Tees, each			.35	.45	.70	1.05							

Finished and Nickel-plated Brass Fittings will be made to order; Nickel-plated at an advance of 20 per cent.

## BRASS FITTINGS

## Iron Pipe Thread

CROSS



FIG. H-303

RETURN BEND  
CLOSE PATTERN

FIG. H-304

RETURN BEND  
OPEN PATTERN

FIG. H-305

## ROUGH

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Crosses, each	.20	.30	.40	.50	.60	.80	1.50	2.00	3.50	5.00	7.00	10.00	14.50
Crosses, Reducing, each		.38	.50	.65	.75	1.00	1.90	2.50	4.40	6.25	8.75	12.50	18.00
Return Bends, C. P., each				.56	.70	1.00	1.70	2.20	3.00				
Return Bends, O. P., each				.70	.88	1.25	2.15	2.75	3.75				

LOCKNUT



FIG. H-306

PLUG



FIG. H-307

CAP

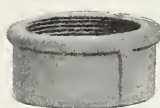


FIG. H-308

BUSHING

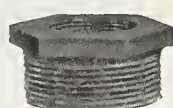


FIG. H-309

## ROUGH

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Locknuts, each	.10	.10	.12	.15	.20	.30	.45	.70	.95	1.50	2.75		
Plugs, each	.09	.10	.12	.15	.20	.28	.40	.50	.90	1.25	2.00	3.00	4.00
Caps, each	.15	.15	.20	.25	.35	.45	.60	.80	1.10	2.00	3.00		
Bushings, each		.10	.12	.14	.21	.38	.50	.67	1.00	1.50	2.50		

Finished and Nickel-plated Brass Fittings will be made to order; Nickel-plated at an advance of 20 per cent.

## BRASS FITTINGS

## Iron Pipe Thread

NIPPLE



FIG. H-310

COUPLING

FIG. H-311  
ROUGH

REDUCER



FIG. H-312

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Nipples, Close, each	.12	.15	.20	.25	.30	.40	.60	.90	1.25	2.50	3.50
Nipples, Long, each	.15	.20	.30	.35	.45	.60	.90	1.25	1.60	3.00	4.50
Couplings, each	.10	.14	.16	.25	.37	.50	.60	.90	1.35	2.40	3.50
Couplings, Right and Left, each	--	.17	.20	.30	.45	.60	.75	1.12	1.75	--	--
Reducers, each	--	.16	.22	.32	.45	.65	.90	1.12	1.85	3.00	4.50

BRASS UNION  
WITH GROUND JOINTS

FIG. H-313

BRASS FLANGE UNION  
ROUGH

FIG. H-314

FIG. H-313—BRASS UNIONS WITH GROUND JOINTS

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Rough, each	.32	.36	.50	.70	.90	1.25	1.70	2.50	3.60	6.00	7.75

FIG. H-314—BRASS FLANGE UNIONS—ROUGH

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
Each	\$3.50	3.50	3.75	4.25	5.60	6.50	8.50	10.50	13.50	15.00	20.00	22.00	27.00

Finished and Nickel-plated Brass Fittings will be made to order; Nickel-plated at an advance of 20 per cent.

## BRASS VALVES

Steam Metal  
Globe, Angle and Cross

CROSS VALVE

GLOBE VALVE



FIG. H-315

ANGLE VALVE



FIG. H-316



FIG. H-317

FIGS. H-315 AND H-316—SCREWED

Size, inches	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Standard, each	.72	.72	.77	1.00	1.26	1.80	2.52
Extra Heavy, each	1.25	1.25	1.45	1.85	2.50	3.50	5.25
Jenkins, each	1.10	1.10	1.25	1.60	2.20	2.80	4.00
Fairbanks, each	1.10	1.10	1.25	1.60	2.20	2.80	4.00
Size, inches	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	
Standard, each	\$3.50	5.30	10.00	14.40	26.50	36.00	
Extra Heavy, each	7.00	10.50	20.00	27.00	50.00	65.00	
Jenkins, each	5.50	8.75	15.75	22.00	-----	-----	
Fairbanks, each	5.50	8.75	15.75	22.00	-----	-----	

FIGS. H-315 AND H-316—FLANGED

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	
Standard, each	\$4.50	5.00	6.75	8.50	10.50	16.00	
Extra Heavy, each	-----	7.75	9.50	13.50	16.50	24.00	
Jenkins, each	4.00	5.00	6.00	9.00	11.00	16.50	
Fairbanks, each	-----	-----	6.00	9.00	11.00	16.50	
Size, inches	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	
Standard, each	\$23.00	35.00	50.00	70.00	125.00	200.00	
Extra Heavy, each	45.00	65.00	95.00	120.00	-----	-----	
Jenkins, each	25.00	34.00	-----	-----	-----	-----	
Fairbanks, each	25.00	34.00	-----	-----	-----	-----	

FIG. H-317—SCREWED

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Standard, each	\$1.25	1.25	1.50	2.00	2.50	3.50	5.00	8.00	16.00	24.00	45.00	60.00
Jenkins, each	1.70	2.00	2.25	2.50	3.25	4.75	6.25	9.50	20.00	27.50	-----	-----

FIG. H-317—FLANGED

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	
Standard, each	\$5.25	7.00	9.00	12.00	15.75	22.00	33.00	45.00	75.00	100.00	
Jenkins, each	7.00	8.00	9.00	12.00	15.00	23.00	33.00	44.00	-----	-----	



## CRANE NAVY VALVES

## Globe and Angle

UNION BONNET—BRASS

REGRINDING WITH GLAND

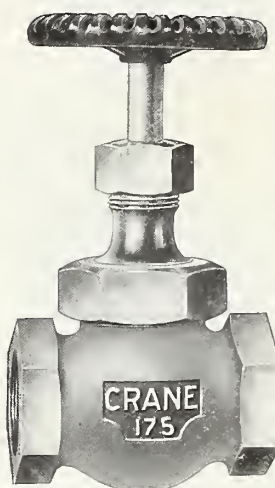


FIG. H-318

TESTED TO 250 POUNDS PRESSURE PER SQUARE INCH  
SUITABLE FOR A WORKING PRESSURE OF 175 POUNDS

## FIG. H-318—SCREWED

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1
Screwed, each	\$1.30	1.50	1.90	2.50	3.50

Size, inches	$\frac{1}{4}$	$\frac{1}{2}$	2	$2\frac{1}{2}$	3
Screwed, each	\$5.00	7.00	11.00	20.00	29.00

## FLANGED

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Each	\$6.00	8.00	11.00	14.00
Diameter of Flanges, inches	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5
Face to Face, Globe, inches	$3\frac{1}{8}$	$4\frac{1}{8}$	$4\frac{9}{16}$	$5\frac{5}{16}$
Center to Inlet or Outlet, Angle, in	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{7}{8}$	$3\frac{1}{8}$

Size, inches	2	$2\frac{1}{2}$	3
Each	\$20.00	33.00	48.00
Diameter of Flanges	6	7	$7\frac{1}{2}$
Face to Face, Globe, inches	6	$6\frac{3}{4}$	$7\frac{1}{8}$
Center to Inlet or Outlet, Angle, inches	$3\frac{3}{4}$	$4\frac{3}{8}$	$4\frac{5}{8}$

## Huxley Valves

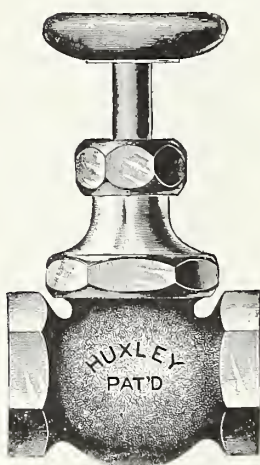


FIG. H-319



FIG. H-320

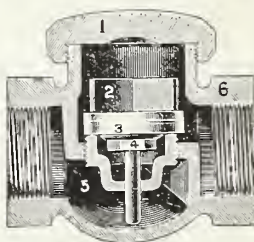


FIG. H-321

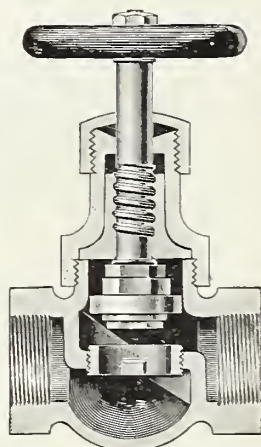


FIG. H-322

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Globe and Angle, Screwed	\$1.10	1.25	1.60	2.20	2.80	4.00	5.50	8.75	15.75	22.00
Globe and Angle, Flanged	3.50	4.00	4.00	5.00	6.00	9.00	11.00	16.50	25.00	34.00
Globe and Angle Checks, Screwed	1.10	1.20	1.30	1.90	2.60	3.60	5.00	7.50	13.50	20.50
Globe and Angle Checks, Flanged				4.75	5.50	7.80	9.80	15.00	22.80	32.40



## BRASS VALVES

HORIZONTAL CHECK VALVE  
WITH DRIP COCK  
STEAM METAL

FIG. H-324

HORIZONTAL CHECK VALVE  
STEAM METAL

FIG. H-323

## FIG. H-323—SCREWED

Size, inches	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Standard, each	.65	.65	.70	.90	1.15	1.60	2.25	3.15	4.75	9.00	13.00	24.00	32.50
Jenkins', each	1.10	1.10	1.20	1.30	1.90	2.60	3.60	5.00	7.50	13.50	21.00	-----	-----

## FIG. H-324—WITH DRIP COCKS

Size, inches	1/2	3/4	1	1 1/4	1 1/2
Standard, each	\$2.15	2.55	3.15	4.05	5.40

VERTICAL CHECK VALVE  
STEAM METAL

FIG. H-325

## FIG. H-325—VERTICAL, SCREWED

Size, inches	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Standard, each	.72	.72	.77	1.00	1.26	1.80	2.52	3.50	5.30	10.00	14.40	26.50	36.00
Jenkins, each	1.10	1.10	1.20	1.30	1.90	2.60	3.60	5.00	7.50	13.50	21.00	-----	-----

## FIG. H-326—ANGLE, SCREWED

ANGLE CHECK VALVE  
STEAM METAL

FIG. H-326

Size, inches	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Standard, each	.72	.72	.77	1.00	1.26	1.80	2.52	3.50	5.30	10.00	14.40	26.50	36.00
Ex. Heavy, each	-----	1.10	1.30	1.65	2.20	3.00	4.75	6.25	9.50	18.50	25.00	47.00	60.00
Jenkins, each	1.10	1.10	1.20	1.30	1.90	2.60	3.60	5.00	7.50	13.50	21.00	-----	-----

## BRASS VALVES

## Brass Straight-way Swing Check Valves—Steam Metal

KENNEDY

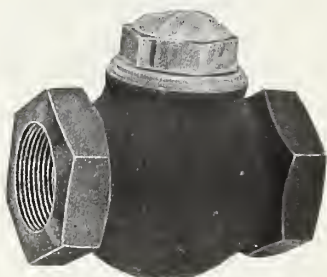


FIG. H-327

JENKINS



FIG. H-323

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. H-327—Kennedy, each	1.30	1.50	1.75	2.25	3.25	4.25	6.25	12.00	20.00	50.50	55.00
Fig. H-327—Fairbanks', each	1.30	1.50	1.75	2.25	3.25	4.25	6.25	12.00	20.00	---	---
Fig. H-328—Jenkins', each	1.20	1.30	1.90	2.60	3.60	5.00	7.50	14.00	21.00	---	---

## Dises

FOR BRASS GLOBE AND ANGLE VALVES. IMPROVED VULCANIZED  
ASBESTOS RING BRASS HOLDER

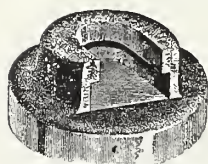


FIG. H-329

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
Each	.13	.14	.07	.09	.10	.12	.18

Size, inches	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Each	.25	.36	.48	.60	1.50	2.00

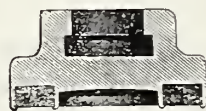


FIG. H-330

Prices of  $\frac{1}{8}$  and  $\frac{1}{4}$  inch include Spindles, as Disc Holder and Spindle are one piece.

## Jenkins' Valve Dises



FIG. H-331

Size, inches ----	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	
Each-----	.03	.04	.04	.05	.06	.09	.12	.18	.24	
<hr/>										
Size, inches ----	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8	10	12
Each-----	.33	.45	.52	.60	.68	.90	.98	1.20	1.75	2.25

## DIAPHRAGMS AND VALVE DISCS

Clark's Diaphragms, No. 1	-----	\$1.00
“ “ “ 2	-----	1.50
“ “ “ 3	-----	2.50
Low Pressure Diaphragms	-----	.80
Kiely Regulator Diaphragms, No. 1, for Valves to 2 inch	-----	.75
“ “ “ 3, “ “ $2\frac{1}{2}$ inch to 7 inch	-----	1.00
“ “ Back Pressure Diaphragms No. 6, for Valves to 6 inch	-----	.75
“ “ “ “ “ 6, “ “ above 6 inch	-----	1.00

## BRASS VALVES

## Globe and Angle Valves for Fire Hose

WITH CAPS AND CHAINS. BRASS WHEELS  
AND FINISHED ALL OVER

## STEAM METAL

## ANGLE PATTERN—SCREWED

Size, inches .....	2	2½
Standard, Finished all over, each .....	\$17.50	27.00
Standard, Finished and Plated all over, each .....	19.50	29.00

## ANGLE PATTERN—FLANGED

Size, inches .....	2	2½
Standard, Finished all over, each .....	\$22.00	\$33.00
Standard, Finished and Plated all over, each .....	24.50	36.00

Hose Valves can be furnished with Jenkins' Discs, Rubber Discs, or Leather Discs.

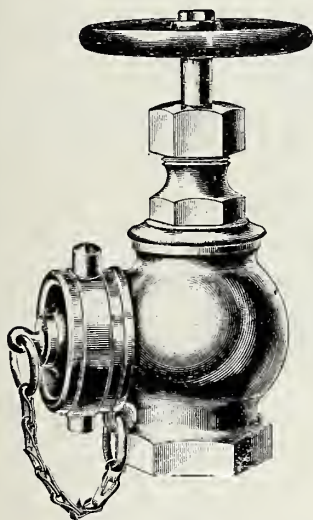


FIG. H-332

## Hose Gate Valves

## STEAM METAL

ROUGH BODY, IRON WHEEL,  
WITH CAP AND CHAIN

Size, inches .....	¾	1	1¼	1½
Kennedy, each.				
Without Cap and Chain.				
Rough Body, with Iron Wheel .....	\$1.75	\$2.50	\$3.50	\$5.00
Rough Body, with Finished Brass Wheel ..	3.25	4.05	5.50	7.10
Finished Body, with Finished Brass Wheel	4.50	5.50	7.25	8.75
Finished Body, Nickel-plated all over .....	4.75	5.90	7.70	10.00
Extra for Cap and Chain, Finished .....	1.25	1.25	1.35	1.50
Extra for Cap and Chain, Finished and N. P.	1.45	1.45	1.65	1.75

Size, inches .....	2	2½	3
Kennedy, each.			
Without Cap and Chain.			
Rough Body, with Iron Wheel .....	\$7.50	\$14.00	\$20.00
Rough Body, with Finished Brass Wheel ..	10.30	18.00	25.00
Finished Body, with Finished Brass Wheel	13.25	22.00	30.00
Finished Body, Nickel-plated all over .....	14.00	23.00	31.50
Extra for Cap and Chain, Finished .....	1.75	2.50	3.50
Extra for Cap and Chain, Finished and N. P.	2.00	3.00	4.25

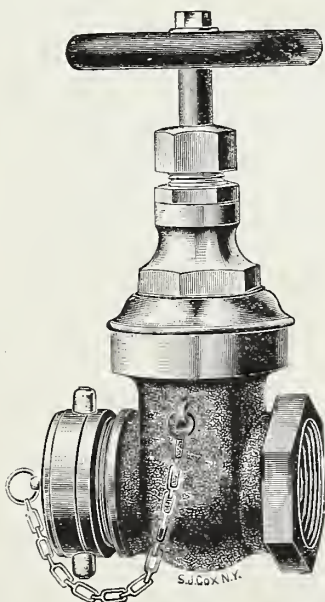


FIG. H-333

## STANDARD HOSE VALVES

BRASS

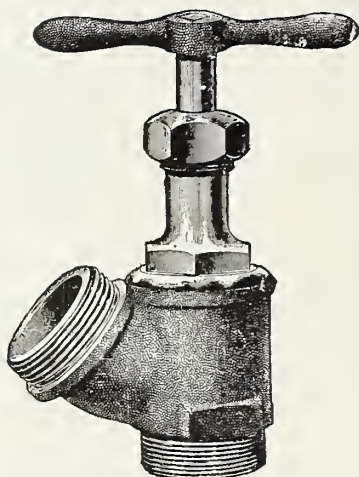


FIG. H-334

## IRON HANDLE, LOOSE SWIVEL AND LEATHER DISC

Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$
Rough Body, Plain, each	\$3.15	3.70	4.75	7.00	8.50
Rough Body, Plated all over, each	3.65	4.30	5.50	8.00	9.75

## FINISHED BRASS WHEEL, LOOSE SWIVEL AND LEATHER DISC

Size, inches	2	2 $\frac{1}{2}$
Finished all over, Plain, each	\$11.50	14.50
Finished and Plated all over, each	12.75	16.00

## FINISHED BRASS WHEEL, FIBRE DISC

Size, inches	2	2 $\frac{1}{2}$
Finished all over, Plain, each	\$13.25	16.50
Finished and Plated all over, each	14.50	18.00

These Valves have Chicago Standard Hose Thread, 1 to 2 inch, inclusive. The 2 $\frac{1}{2}$  inch has the Chicago Fire Department Hose Thread. Will be furnished with other threads than those specified at an extra charge.

## BRASS THROTTLE VALVES

STEAM METAL

GATE PATTERN

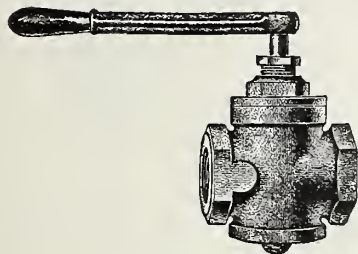


FIG. H-335

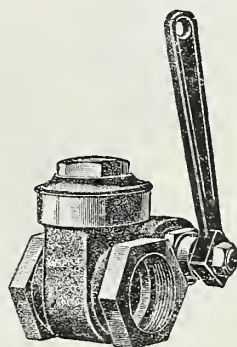


FIG. H-336

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Fig. H-335—Standard, each	\$8.75	10.00	11.50	14.00	20.00	25.00	35.00
Fig. H-336—Standard, each	1.60	1.80	2.50	3.50	5.00	7.50	13.50
Fig. H-336—Heavy Pressure, each	2.50	3.00	4.00	5.00	7.00	10.00	19.00

## Brass Y Valves

STEAM METAL

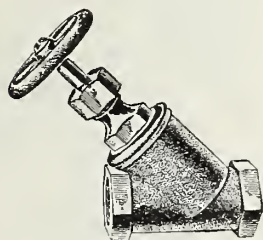


FIG. H-337

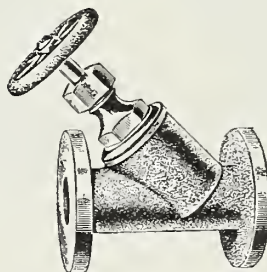


FIG. H-338

FIG. H-337—SCREWED

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Standard, each	\$2.00	3.00	4.00	5.00	6.00	8.50	18.00	25.00	
Jenkins, each	\$2.00	2.00	3.00	4.00	5.00	6.50	9.25	18.00	25.00

FIG. H-338—FLANGED

Size, inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Standard, each	\$8.65	10.75	13.00	19.50	28.00	36.75
Jenkins, each	9.00	11.00	13.00	20.00	28.00	37.00



## STANDARD BRASS SAFETY VALVES

GLOBE SCREWED

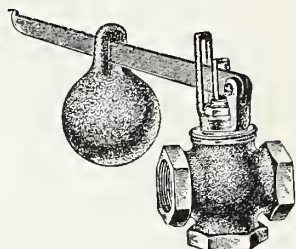


FIG. H-339

ANGLE SCREWED

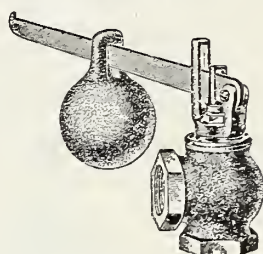


FIG. H-340

FIGS. H-339 AND H-340—SCREWED

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Standard, each	\$3.25	3.90	4.70	7.15	9.00	12.50	22.50	33.50
Jenkins', each	4.00	5.00	6.00	9.00	11.00	16.00	---	---

## Standard Brass Safety Valves

LOW PRESSURE



FIG. H-341

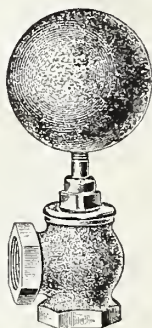


FIG. H-342

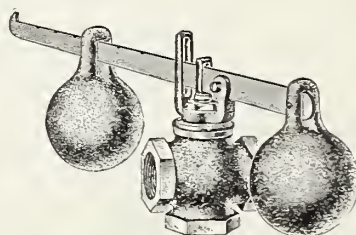


FIG. H-343

FIG. H-341—BALL ON TOP

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Each	\$1.50	2.25	3.00	4.00	5.50

FIG. H-342—BALL ON TOP. ANGLE PATTERN

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Each	\$2.25	2.60	3.30	4.50	6.35	8.65

FIG. H-343—WITH BALANCE WEIGHT

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Each	\$3.00	3.75	5.50	7.75	9.50	12.35

BRASS VALVES

BRASS EUREMA Y VALVE

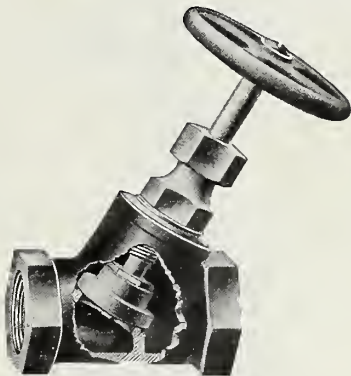


FIG. H-344

Size, inches.....	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Brass Disc, each.....	.77	1.00	1.26	1.80	2.52	3.50	5.30	10.00	14.40
Jenkins' Disc, each---	\$1.25	1.60	2.20	2.80	4.00	5.50	8.75	15.75	22.00



FIG. H-345

BRASS BUTTERFLY VALVE

Size, inches.....	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. 345—Each--	\$3.10	4.40	5.65	6.75	10.00	13.75	21.00

BRASS EXPANSION JOINT  
4 INCH TRAVERSE

Size, inches----	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Each .....	\$3.80	4.00	4.90	6.30	7.40	9.10



FIG. H-346

## BRASS GATE VALVE

STEAM METAL



FIG. H-347

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Kennedy, Screw Ends	\$1.40	\$1.40	\$1.80	\$2.50	\$3.50	\$5.00	\$7.50
Kennedy, Flanged Ends		3.75	4.50	7.50	9.00	12.00	14.00
Ludlow, Screw Ends	1.40	1.40	1.80	2.35	3.40	4.40	6.25
Ludlow, Flanged Ends		3.40	3.70	4.15	5.70	7.40	11.00
Chapman, Screw Ends	1.35	1.50	1.85	2.55	3.30	4.50	6.70
Chapman, Flanged Ends	2.00	2.50	2.85	4.00	5.00	7.25	10.25
Fairbanks, Screw Ends	1.50	1.65	2.20	2.80	4.00	5.30	7.80
Fairbanks, Flanged Ends	4.25	4.65	5.65	7.50	9.35	14.00	16.00
Jenkins, Screw Ends		2.00	2.50	3.25	4.25	5.25	7.50
Jenkins, Flanged Ends		3.50	4.50	6.00	7.50	10.00	14.00

Size, inches	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Kennedy, Screw Ends	\$14.00	\$20.00	\$32.00	\$50.00	\$70.00	\$120.00
Kennedy, Flanged Ends	24.00	34.00	45.00	60.00	85.00	135.00
Ludlow, Screw Ends	13.75	15.50	23.50	34.00	52.00	76.00
Ludlow, Flanged Ends	18.75	21.50	30.50	43.00	64.00	88.00
Chapman, Screw Ends	11.35	16.50	30.50	39.00		
Chapman, Flanged Ends	16.35	20.75	38.00	46.25		
Fairbanks, Screw Ends	17.00	23.00				
Fairbanks, Flanged Ends	26.50	35.75				
Jenkins, Screw Ends	14.00	20.00				
Jenkins, Flanged Ends	21.00	28.00				

## BRASS GATE VALVE

Quick Opening, Rising Stem and Lever

STEAM METAL

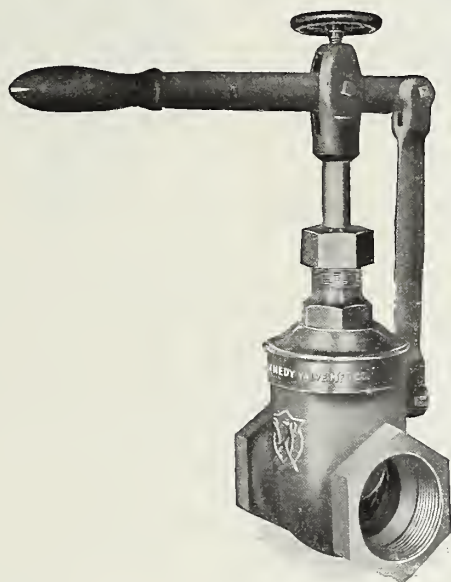


FIG. H-348

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Kennedy, Screw Ends		\$2.80	\$3.25	\$4.50	\$6.00	\$8.00	\$12.00
Kennedy, Flanged Ends							18.50
Ludlow, Screw Ends	\$2.20	2.20	2.60	3.15	4.40	5.40	7.50
Ludlow, Flanged Ends		4.20	4.50	4.95	6.70	8.40	12.25
Chapman, Screw Ends	2.05	2.20	2.55	3.25	4.05	5.50	7.70
Chapman, Flanged Ends	2.70	3.20	3.55	4.70	5.75	8.25	11.25
Jenkins', Screw Ends		2.50	3.20	4.25	5.60	6.80	9.50

Size, inches	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Kennedy, Screw Ends	\$22.00	\$30.00	\$48.00	\$72.00		
Kennedy, Flanged Ends	32.00	45.00	60.00	85.00		
Ludlow, Screw Ends	15.50	17.50	25.50	36.00	\$54.25	\$78.25
Ludlow, Flanged Ends	20.50	23.50	32.50	45.00	66.25	90.25
Chapman, Screw Ends	12.65	18.15	32.15	40.65		
Chapman, Flanged Ends	17.45	22.40	39.65	47.90		
Jenkins', Screw Ends	16.25	22.50				

# BRASS COCKS

## Steam Cocks

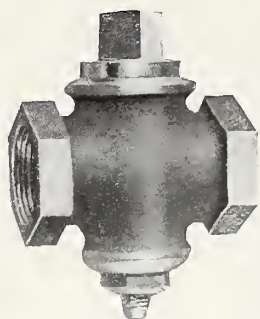


FIG. H-349

## THREE WAY



FIG. H-350

FIG. H-349

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
Square or Flat Head, each	.85	.85	1.00	1.25	1.70	2.35	3.70
With Check, each	1.00	1.00	1.15	1.40	1.90	2.55	3.95
Extra Heavy, each	1.30	1.30	1.50	2.00	2.85	4.00	6.75

Size, inches	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Square or Flat Head, each	4.85	7.30	14.50	22.50	38.50	50.00
With Check, each	5.15	7.65	15.00	23.25	39.50	51.50
Extra Heavy, each	8.50	13.50	25.00	37.00	54.00	75.00

FIG. H-350—THREE WAY

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Each	\$2.50	3.00	3.75	5.75	7.15	11.00	18.75	26.00	50.00	70.00

## Gas Service Cocks

### SQUARE HEAD

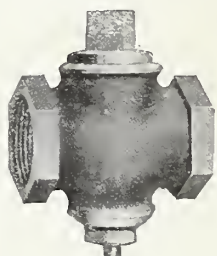


FIG. H-351

### FLAT HEAD

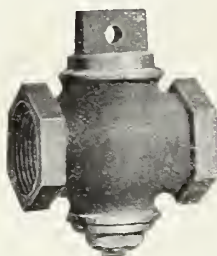


FIG. H-352

FIGS. H-351 AND H-352—SQUARE OR FLAT HEAD

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Each	.75	.75	.85	.95	1.15	1.50	2.25	3.10	5.00	11.00	16.00
With Check, each	.90	.90	1.00	1.10	1.35	1.70	2.50	---	---	---	---
Extra Heavy, each	---	.85	.95	1.05	1.30	1.70	2.60	3.60	6.50	12.00	18.00

For Iron Lever Handle Wrenches, see page 116.



## BRASS COCKS

## Standard Gas Service Cocks

## MALE AND FEMALE

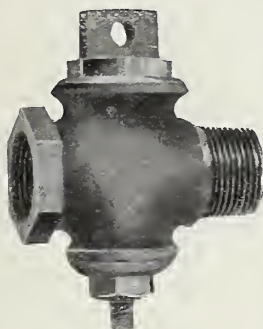


FIG. H-353

## T HANDLE



FIG. H-354

## FIG. H-353—MALE AND FEMALE

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Each	\$1.00	1.00	1.30	1.40	1.95	3.00	4.25	6.00

## FIG. H-354—T HANDLE

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Each	.75	.75	.85	.95	1.15	1.50	2.25	3.10	5.00
With Check, each	.90	.90	1.00	1.10	1.35	1.70	2.50	3.40	5.35

## Standard Gas Meter Cocks

## WITH UNION

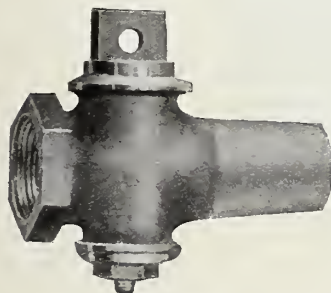


FIG. H-355

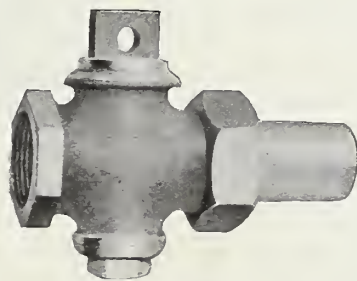


FIG. H-356

## FIG. H-355

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Square or Flat Head, or T Handle, each	\$1.30	1.40	1.95	3.00	4.25	6.00
Extra Heavy, each	1.45	1.60	2.20	3.45	4.95	7.75

## FIG. H-356—WITH UNION

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Square or Flat Head, or T Handle, each	\$1.40	1.55	2.20	3.40	5.00	7.00
Extra Heavy, each	1.50	1.80	2.50	---	---	---

For Iron Lever Handle Wrenches, see page 116.

## BRASS COCKS

## Standard Lock Gas Service Cocks

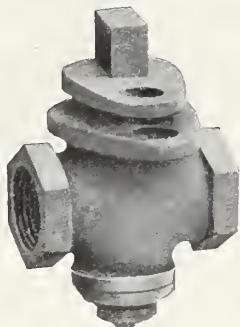


FIG. H-357

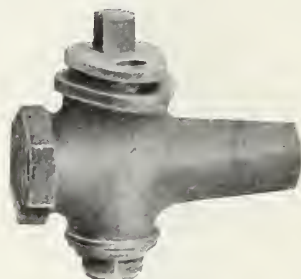


FIG. H-358

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Each	\$1.30	1.60	2.10	3.50	5.00	7.00

FIG. H-358

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Each	\$1.40	1.75	2.30	3.85	5.50	7.75

## Standard Lock Gas Meter Cocks

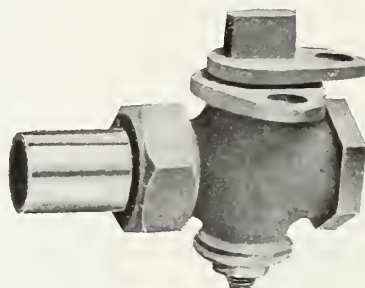


FIG. H-359

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
With Union, each	\$1.50	1.80	2.50	4.00	5.50	8.00
Without Union, each	1.40	1.75	2.30	3.85	5.50	7.75

## IRON LEVER HANDLE WRENCH

## FOR GAS AND STEAM COCKS



FIG. H-360

Size of Square Hole, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$
Each	.10	.10	.10	.15	.15	.20	.25	.40

## BRASS AND IRON COCKS

## Vulcanized Asbestos Packed

SCREWED

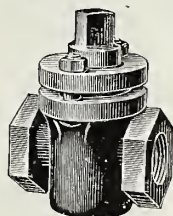


FIG. H-361

FLANGED

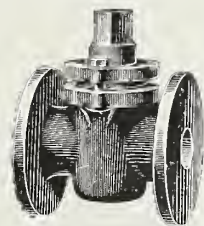


FIG. H-362

FIGS. H-361 AND H-362

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Brass, Screw Ends	\$3.35	3.35	3.35	4.20	5.60	8.00	10.30	16.00
Brass, Flanged Ends					10.50	12.50	14.50	26.00

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Iron, Screw and Flanged Ends	\$1.30	1.30	1.45	1.60	2.10	2.50	3.50	4.75

Size, inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Iron, Screw and Flanged Ends	\$7.00	12.00	18.00	27.00	30.00	45.00	60.00

## BRASS AND IRON THREE-WAY COCKS

## Vulcanized Asbestos Packed

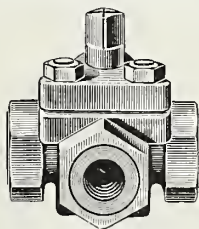


FIG. H-363

In "X" Pattern—Any two ports can be open and the third closed; also made so that all three ports can be open—closed.

In "XX" Pattern—All three ports can be open; any two can be open and the third closed; also side port and either line port can be connected. All three ports can be closed.

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
"X" Pattern, Brass, Screwed, or Flanged Ends	\$7.75	14.00	20.50	33.50	45.25	53.50	110.00	140.00
"XX" Pattern, Brass, Screwed or Flanged Ends	4.50	5.75	7.50	10.75	14.00	21.50	36.00	50.50
"X" Pattern, Iron, Screwed or Flanged Ends	2.85	4.75	7.00	12.00	18.00	30.00	45.00	60.00
"XX" Pattern, Iron, Screwed or Flanged Ends	2.85	3.15	4.40	5.95	8.75	15.00	22.50	33.75

HUXLEY BALL COCK OR BLOW-OFF VALVE

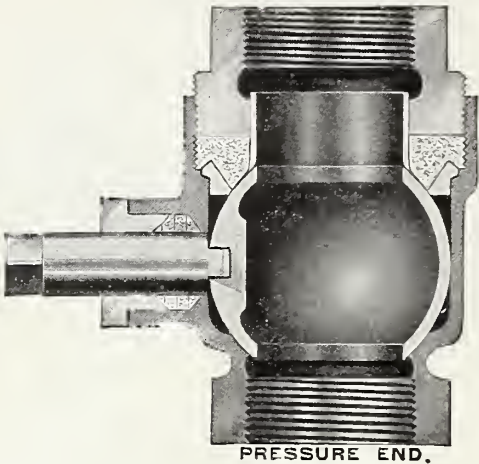


FIG. H-364

Made of bronze and adapted for all purposes where a quick, full and straight opening and a positive joint are desired for any working pressure of 200 pounds or less. We know there are others, but none to compare with the Huxley. Should a leak occur, said leak can be stopped by simply adjusting the gland. If in the market for a Valve that can positively be depended upon, order a Huxley, and if found not perfectly satisfactory return to us.

ALL PARTS RENEWABLE AND ADJUSTABLE

Size, inches -----	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Each -----	\$3.35	4.20	5.60	8.00	10.35	16.00	26.50	37.50	50.50	64.00

STANDARD FUSIBLE PLUG

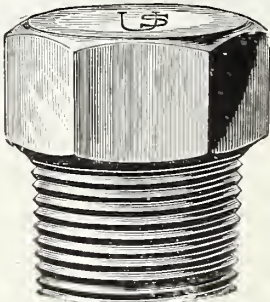


FIG. H-365

These Plugs are made of bronze and filled with pure Banca tin. The construction fulfills the requirements of Sec. 4436 of the U. S. Revised Statutes and in all details with Sec. 26, Rule 2, Regulations of the Board of U. S. Supervising Inspectors of Steam Vessels, and are accepted by all Local Inspectors.

Size, inches -----	1/2	3/4	1	1 1/4	1 1/2	2
Each -----	.60	.75	1.00	1.50	2.00	3.00

## RADIATOR VALVES

## WOOD WHEELS

## FEMALE



FIG. H-366

## WITH UNION



FIG. H-367

## LOCK SHIELD



FIG. H-368

## FIG. H-366—BRASS DISC

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Plain, each	\$1.75	2.35	3.25	4.35	6.85
Rough Body, Plated all over, each	2.10	2.75	3.70	4.85	7.60
Finished all over, each	2.50	3.25	4.35	5.75	9.00
Finished and Plated all over, each	2.85	3.65	4.80	6.25	9.75

## FIG. H-366—JENKINS' DISC

Rough Body, Finished Trimmings, each	\$2.50	3.20	4.50	6.25	10.50
Rough Body, Plated Trimmings, each	2.70	3.50	4.75	6.50	10.75
Rough Body, Plated all over, each	2.85	3.65	4.90	6.75	11.00
Finished Body, each	3.00	3.75	5.25	7.25	11.75
Finished Body, Plated all over, each	3.10	4.00	5.40	7.75	12.25
Jenkins' Discs, each	.10	.12	.18	.25	.36

## FIG. H-367—BRASS DISC

Rough Body, Plain, each	\$2.50	3.30	4.40	5.90	9.25
Rough Body, Plated all over, each	2.90	3.75	5.00	6.50	10.00
Finished all over, each	3.40	4.25	5.75	7.75	12.00
Finished and Plated all over, each	3.80	4.70	6.35	8.35	12.75

## FIG. H-367—JENKINS' DISC

Rough Body, Finished Trimmings, each	\$3.50	4.30	5.85	7.75	12.60
Rough Body, Plated Trimmings, each	3.75	4.65	6.25	8.00	12.85
Rough Body, Plated all over, each	3.80	4.75	6.40	8.10	13.10
Finished Body, each	4.00	4.80	6.40	8.75	13.85
Finished Body, Plated all over, each	4.25	5.25	7.00	9.25	14.35
Jenkins' Discs, each	.10	.12	.18	.25	.36

## FIG. H-368—LOCK SHIELD RADIATOR VALVES

Any of these Radiator Valves can be furnished with Lock and Shield.

List Prices same as Wood Wheel Valves.

Keys extra.

NOTE.—Unless ordered otherwise, all Radiator Valves will be furnished with Right Hand Threads at both ends.



RIGHT HAND VALVE—NO UNION



FIG. H-369

LEFT HAND VALVE—WITH UNION

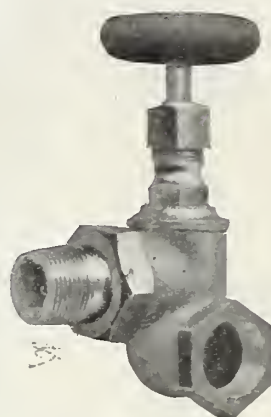


FIG. H-370

### CORNER RADIATOR VALVES

Wood Wheel

FIG. H-369—WITHOUT UNION

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Trimmings, each	\$2.75	3.50	5.00	7.00	11.55
Rough Body, Plated Trimmings, each	3.00	3.85	5.25	7.25	11.85
Rough Body, Plated all over, each	3.15	4.00	5.50	7.50	12.10
Finished all over, each	3.40	4.25	5.75	8.00	13.05
Finished and Plated all over, each	3.80	4.75	6.25	8.50	13.60

FIG. H-370—WITH UNION

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Trimmings, each	\$3.85	4.75	6.45	8.55	13.85
Rough Body, Plated Trimmings, each	4.15	5.15	6.90	8.80	14.15
Rough Body, Plated all over, each	4.20	5.25	7.05	8.95	14.45
Finished all over, each	4.50	5.50	7.20	9.55	15.35
Finished and Plated all over, each	4.85	6.00	7.80	9.95	15.95

All Corner Valves are tapped right hand bottom and left hand side.  
Valves fitted with Lock and Shield at same List; Keys extra.

### QUICK OPENING RADIATOR VALVE

For Hot Water

FIG. H-371—WITHOUT UNION

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Trim'gs	\$1.60	2.25	3.25	4.50	7.00
Rough Body, Plated Trimmings	1.85	2.40	3.60	4.85	7.25
Rough Body, Plated all over	1.95	2.65	3.70	5.00	7.75
Finished all over	2.15	2.85	4.00	5.50	8.50
Finished and Plated all over	2.50	3.25	4.45	6.00	9.25

FIG. H-371—WITH UNION

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Finished Trim'gs	\$2.45	3.25	4.50	6.50	10.00
Rough Body, Plated Trimmings	2.60	3.35	4.90	6.65	10.25
Rough Body, Plated all over	2.85	3.65	5.05	7.10	10.85
Finished all over	3.00	3.85	5.25	7.50	11.50
Finished and Plated all over	3.40	4.30	5.80	8.10	12.35



FIG. H-371

## RADIATOR UNION ELBOW

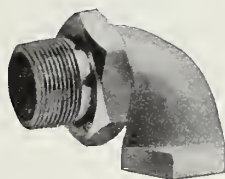


FIG. H-372

Size, inches.....	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Body, Plated all over, each.....	\$2.00	2.50	3.20	4.00	7.00
Finished, Plated all over, each.....	2.40	3.00	3.90	4.85	8.50

## RADIATOR AIR VALVES—COMPRESSION

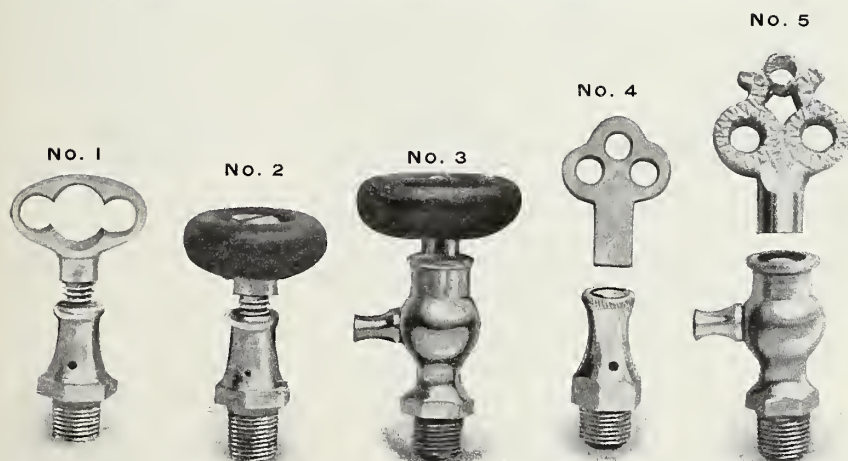


FIG. H-373

FIG. H-374

FIG. H-375

FIG. H-376

FIG. H-377

## IRON PIPE THREAD

Size, inches.....	Nickel-plated.	
No. 1—All Brass, each.....	$\frac{1}{8}$	$\frac{1}{4}$
No. 2—Wood Wheel, each.....	.35	.40
No. 3—Wood Wheel, with Nose, each.....	.45	.50
No. 4—Lock and Shield, each.....	.70	.75
No. 5—Lock and Shield, with Nose, each.....	.35	.40
	.57	--

Keys for No. 4 extra ; Nickel-plated, each, net, 6 cents.

## MONASH AIR VALVES

### Monash Four-Way-Drain Brand of Perfected-Duplex Automatic Air Valves

Notice the four-way-draining attachment extending from the valve nipple into the radiator, thereby clearing the valve of the sediment and water of condensation, returning it to the radiator, thus preventing the flooding of floors and carpets and doing damage to floors and ceilings below.

No. 1 IMPROVED



FIG. H-378

Each.....\$2.00

No. 6 IMPROVED



FIG. H-379

Each.....\$3.00

No. 7 IMPROVED



FIG. H-380

Each.....\$3.00

### Perfected-Duplex Brand of Automatic Steam Air Valves

HAVE STOOD THE TEST OF TIME AND ARE NO EXPERIMENT  
GUARANTEED IN WRITING FOR FIVE YEARS

No. 1



FIG. H-381

Each.....\$1.50

No. 2



FIG. H-382

Each.....\$2.00

No. 3



FIG. H-383

Each.....\$1.50

No. 6



FIG. H-384

Each.....\$2.00

## MONASH AIR VALVES

### Automatic Steam Air Valves

STAR No. 8



FIG. H-385

Each .....\$1.25

MO-YO-CO  
No. 1



FIG. H-386

Each .....\$1.00

MO-YO-CO  
No. 3

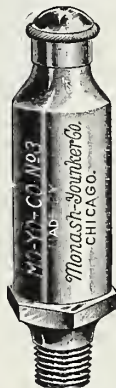


FIG. H-387

Each .....\$1.00

MO-YO-CO  
No. 4



FIG. H-388

Each .....\$1.25

## HOT WATER AUTOMATIC AIR VALVES

### For Radiators

MONASH No. 9



FIG. H-389

Each .....\$3.00

MONASH POSITIVE

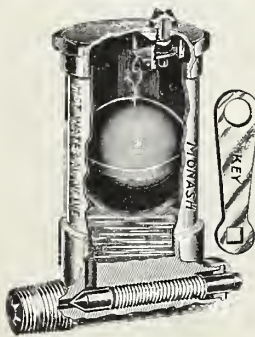


FIG. H-390

Each .....\$3.00



## MONASH AIR VALVES

### Automatic Steam Air Valves

**SELF CLEANING  
NO. 5**



**FIG. H-391**  
Each...\$2.00

**MONASH PAUL  
NO. 1**



**FIG. H-392**  
Each...\$2.00

**M-Y-C**



**FIG. H-393**  
Each...\$2.00

**MONASH NO. 15  
AUTOMATIC TANK VENT**



**FIG. H-394**  
Each...\$3.00

Fig. H-394—Monash, No. 15, Automatic Tank Vent is used very largely on closed hot and cold water tanks. Will do away with the necessity of constantly venting a closed tank by hand. This valve is perfectly automatic.

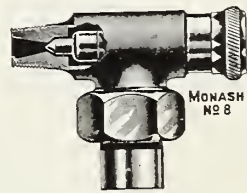
**MIDGET  
NO. 2**



**FIG. H-395**

Per dozen .....\$8.50

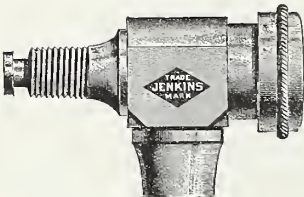
**MONASH  
NO. 8**



$\frac{1}{2} \times \frac{1}{2} - \frac{1}{8} \times \frac{1}{4}$   
**FIG. H-396**

Per dozen .....\$12.00

### Jenkins' Bros.



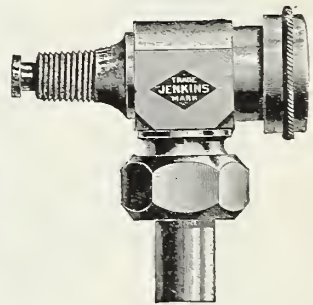
**FIG. H-397**

Per dozen .....\$7.50



**FIG. H-398**

Per dozen .....\$2.00



**FIG. H-399**

Fig. H-399— $\frac{1}{2} \times \frac{1}{2}$  Union, \$9.50;  $\frac{1}{2} \times \frac{1}{4}$  Union, \$10.00;  $\frac{1}{4} \times \frac{1}{4}$  Union, \$10.00 per dozen.



## IRON BODY VALVES—BRASS MOUNTED

GLOBE VALVE—PLAIN



FIG. H-400

ANGLE VALVE—PLAIN



FIG. H-401

## GLOBE AND ANGLE—SCREWED

Size, inches	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Standard, each	\$2.25	2.75	3.50	5.40	7.35	9.80	---	---
Standard, all Iron, (not illustrated), each	5.70	6.00	6.60	7.50	9.40	12.50	---	---
Fairbanks', each	---	---	5.00	7.25	11.00	16.00	18.50	23.00
Jenkins', each	3.00	4.00	5.00	7.25	11.00	16.00	---	---
Jenkins', all Iron, (not illustrated), each	3.75	4.00	4.25	5.25	11.00	13.25	15.50	17.50

## GLOBE AND ANGLE—FLANGED

Size, inches	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Standard, each	\$3.25	3.85	4.80	7.00	9.00	12.50	---	---
Standard, all Iron, (not illustrated), each	6.90	7.25	7.80	9.00	11.50	16.50	---	---
Fairbanks', each	---	---	6.00	8.50	13.00	18.00	20.50	25.00
Jenkins', each	4.40	5.40	6.60	8.50	13.00	18.00	---	---
Jenkins', all Iron, (not illustrated), each	4.50	4.75	5.25	6.50	12.50	14.50	16.75	19.25



FIG. H-402

## IRON BODY VALVES

### Globe Valves with Yoke

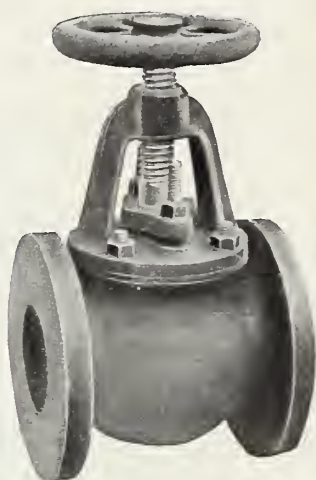


FIG. H-403

FIG. H-402—SCREWED

Size, inches	2	2½	3	3½	4	4½
Standard, each	\$7.00	9.00	12.50	15.25	19.00	24.00
Standard, all Iron, (not illustrated), each				27.75	31.80	39.00
Fairbanks', each	10.00	12.00	16.75	19.50	24.00	32.00
Jenkins', each	10.00	12.00	16.75	19.50	24.00	32.00
Jenkins', all Iron, (not illustrated,) each				15.50	17.50	25.75

Size, inches	5	6	7	8	10	12
Standard, each	\$27.00	37.50	63.00	72.00	114.00	170.00
Standard, all Iron, (not illustrated,) each	40.50	52.50	77.00	93.00		
Fairbanks', each	40.00	48.00	80.00	90.00	130.00	185.00
Jenkins', each	40.00	48.00	80.00	90.00	130.00	185.00
Jenkins', all Iron, (not illustrated,) each	27.00	33.25	43.25	52.00		

FIG. H-403—FLANGED

Size, inches	2	2½	3	3½	4	4½	5
Standard, each	\$8.60	10.75	15.00	18.50	22.50	27.50	31.00
Standard, all Iron, (not illustrated) each				29.55	33.70	41.00	44.70
Fairbanks', each	11.75	14.00	18.50	21.50	26.00	34.00	42.00
Jenkins', each	11.75	14.00	18.50	21.50	26.00	34.00	42.00
Jenkins', all Iron, (not illustrated,) each				16.75	19.25	27.50	29.00

Size, inches	6	7	8	10	12	14	16
Standard, each	\$42.00	68.00	77.00	123.00	187.00	350.00	475.00
Standard, all Iron, (not illustrated,) each	57.60	81.00	99.00				
Fairbanks', each	50.00	80.00	90.00	130.00	185.00		
Jenkins', each	50.00	80.00	90.00	130.00	185.00		
Jenkins', all Iron, (not illustrated,) each	35.50	46.25	56.25				

## IRON BODY VALVES

## Angle Valves with Yoke

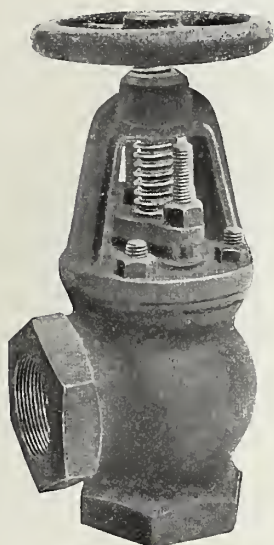


FIG. H-404

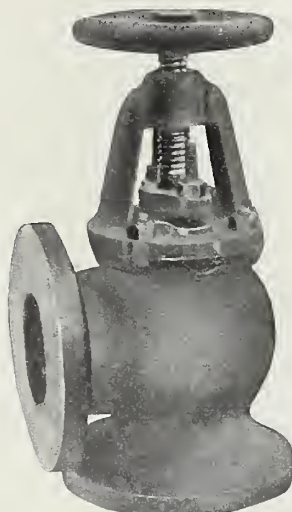


FIG. H-405

FIG. H-404—SCREWED

Size, inches	2	2½	3	3½	4	4½
Standard, each	\$7.00	9.00	12.50	15.25	19.00	24.00
Standard, all Iron, (not illustrated), each	---	---	---	27.75	31.80	39.00
Fairbanks', each	10.00	12.00	16.75	19.50	24.00	32.00
Jenkins', each	10.00	12.00	16.75	19.50	24.00	32.00
Jenkins', all Iron, (not illustrated), each	---	---	---	15.50	17.50	25.75
Size, inches	5	6	7	8	10	12
Standard, each	\$27.00	37.50	63.00	72.00	114.00	170.00
Standard, all Iron, (not illustrated), each	40.50	52.50	77.00	93.00	---	---
Fairbanks', each	40.00	48.00	80.00	90.00	130.00	185.00
Jenkins', each	40.00	48.00	80.00	90.00	130.00	185.00
Jenkins', all Iron, (not illustrated), each	27.00	33.25	43.25	52.00	---	---

FIG. H-405—FLANGED

Size, inches	2	2½	3	3½	4	4½	5
Standard, each	\$8.60	10.75	15.00	18.50	22.50	27.50	31.00
Standard, all Iron, (not illustrated), each	---	---	---	29.55	33.70	41.00	44.70
Fairbanks', each	11.75	14.00	18.50	21.50	26.00	34.00	42.00
Jenkins', each	11.75	14.00	18.50	21.50	26.00	34.00	42.00
Jenkins', all Iron, (not illustrated), each	---	---	---	16.75	19.25	27.50	29.00
Size, inches	6	7	8	10	12	14	16
Standard, each	\$42.00	68.00	77.00	123.00	187.00	350.00	475.00
Standard, all Iron, (not illustrated), each	57.60	81.00	99.00	---	---	---	---
Fairbanks', each	50.00	80.00	90.00	130.00	185.00	---	---
Jenkins', each	50.00	80.00	90.00	130.00	185.00	---	---
Jenkins', all Iron, (not illustrated), each	35.50	46.25	56.25	---	---	---	---

IRON BODY VALVES

Cross Valves with Yoke

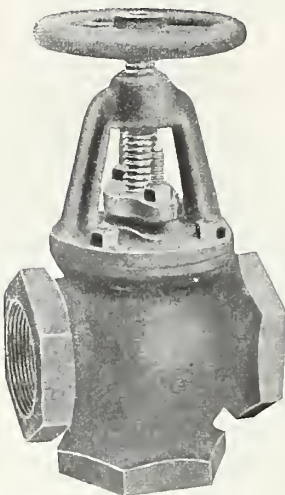


FIG. H-406

SCREWED				
Size, inches	2	2½	3	3½
Standard, each	\$8.50	11.75	16.25	20.00
Fairbanks', each	14.00	16.00	21.00	26.00
Jenkins', each	14.00	16.00	21.00	26.00
Size, inches	4	4½	5	6
Standard, each	\$23.50	30.65	35.25	47.25
Fairbanks', each	30.00	42.00	45.00	58.00
Jenkins', each	30.00	42.00	45.00	58.00
Size, inches	7	8	10	12
Standard, each	\$78.00	92.00	162.00	240.00

FLANGED				
Size, inches	2	2½	3	3½
Standard, each	\$11.00	14.50	20.00	25.00
Fairbanks', each	17.00	19.00	24.00	29.00
Jenkins', each	17.00	19.00	24.00	29.00
Size, inches	4	4½	5	6
Standard, each	\$28.50	36.00	41.00	54.00
Fairbanks', each	33.00	45.00	48.00	62.00
Jenkins', each	33.00	45.00	48.00	62.00
Size, inches	7	8	10	12
Standard, each	\$85.00	100.00	175.00	265.00

Iron Body Y Valves

SCREWED				
Size, inches	2	2½	3	3½
Standard, each	\$10.40	14.80	20.00	28.00
Jenkins', each	11.00	15.00	20.00	28.00
Size, inches	4	5	6	
Standard, each	\$35.00	58.80	70.00	
Jenkins', each	35.00	59.00	70.00	

FLANGED				
Size, inches	2	2½	3	3½
Standard, each	\$12.40	17.40	23.00	31.00
Jenkins', each	13.00	18.00	23.00	31.00
Size, inches	4	5	6	
Standard, each	\$38.40	64.00	70.00	
Jenkins', each	38.40	64.00	70.00	



FIG. H-407

"Eurema" Y Valve

Size, inches	2	2½	3	3½	4	4½	5	6	7	8
Brass Disc, each	\$7.00	9.00	12.50	15.25	19.00	24.00	27.00	37.50	63.00	72.00
Jenkins' Disc, each	10.00	12.00	16.75	19.50	24.00	32.00	40.00	48.00	80.00	90.00



## IRON BODY VALVES

## I. B. Check Valves with Brass Cap

HORIZONTAL

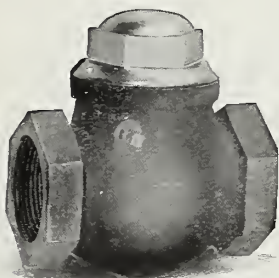


FIG. H-408

ANGLE



FIG. H-409

FIGS. H-408 AND H-409—HORIZONTAL AND ANGLE

Size, inches	2	2½	3	3½	4	4½	5	6
Screwed, each	\$3.60	6.50	8.90	12.25	14.25	19.00	22.00	30.00
Screwed, Jenkins', each	8.00	11.00	14.00	17.00	20.00	25.00	30.00	40.00
Flanged, each	5.25	8.25	11.50	15.50	18.00	22.50	26.00	35.00
Flanged, Jenkins', each	10.00	13.00	16.50	20.00	23.00	28.00	33.00	43.00

Size, inches	7	8	10	12
Screwed, each	\$45.00	57.00	105.00	155.00
Flanged, each	50.00	62.00	115.00	175.00

## VERTICAL—(Not Illustrated).

Size, inches	2	2½	3	3½	4	4½	5	6	7	8
Screwed, each	\$7.00	9.50	12.50	17.00	21.00	30.00	33.00	40.00	62.00	73.00
Screwed, Jenkins', each	8.00	11.00	14.00	17.00	20.00	25.00	30.00	40.00	65.00	80.00
Flanged, each	8.75	11.50	15.00	20.00	25.00	33.50	37.00	45.00	67.00	78.00
Flanged, Jenkins', each	10.00	13.00	16.50	20.00	23.00	28.00	33.00	43.00	65.00	80.00

## HORIZONTAL AND ANGLE

Size, inches	2	2½	3	3½	4
Screwed, Standard, each				\$12.25	14.25
Screwed, Jenkins', each	8.00	11.00	14.00	17.00	20.00

Size, inches	4½	5	6	7
Screwed, Standard, each	\$19.00	22.00	30.00	45.00
Screwed, Jenkins', each	25.00	30.00	40.00	65.00

Size, inches	8	10	12
Screwed, Standard, each	\$57.00	105.00	155.00

Size, inches	3	3½	4	4½
Flanged, Standard, each		\$15.50	18.00	22.50
Flanged, Jenkins', each	\$16.50	20.00	23.00	28.00

Size, inches	5	6	7	8
Flanged, Standard, each	\$26.00	35.00	50.00	62.00
Flanged, Jenkins', each	33.00	43.00	65.00	80.00

Size, inches	10	12	14	16
Flanged, Standard, each	\$115.00	175.00	300.00	425.00

HORIZONTAL,  
IRON CAP BOLTED ON

FIG. H-410



## IRON BODY VALVES

## I. B. Bronze Mounted Swing Check Valves

SCREWED

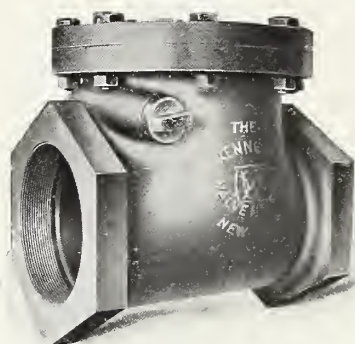


FIG. H-411

FLANGED



FIG. H-412

FIG. H-411—SCREWED

Size, inches	2	2½	3	3½	4	5
Kennedy, each		\$15.00	18.00	24.00	27.00	38.00
Ludlow, each	\$7.00	7.75	9.75	14.50	20.50	25.50

Size, inches	6	7	8	10	12
Kennedy, each	\$48.00	62.00	75.00	125.00	200.00
Ludlow, each	31.00	41.50	44.50	77.50	97.00

FIG. H-412—FLANGED

Size, inches	2	2½	3	3½	4	5
Kennedy, each		\$17.00	21.00	27.00	30.00	42.00
Ludlow, each	\$7.75	8.75	11.00	15.50	21.50	27.00

Size, inches	6	7	8	10	12
Kennedy, each	\$52.00	67.00	80.00	135.00	220.00
Ludlow, each	32.50	43.00	46.00	76.50	95.00

## Bell Ends

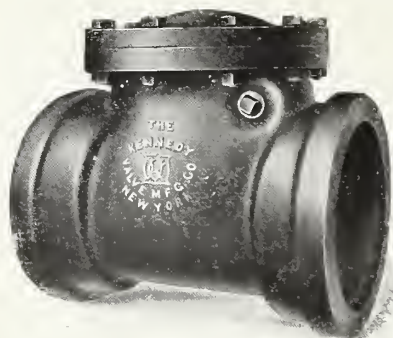


FIG. H-413

Size, inches	3	4	5	6
Kennedy, each	\$24.00	35.00	48.00	60.00
Ludlow, each	10.25	20.50	25.00	28.50

Size, inches	8	10	12	14
Kennedy, each	\$90.00	160.00	265.00	---
Ludlow, each	43.00	73.00	92.00	146.00

Size, inches	16	18	20	24
Kennedy, each	Prices on application			
Ludlow, each	\$160.00	225.00	280.00	390.00

## IRON BODY SAFETY VALVE

## Brass Mounted

## CROSS

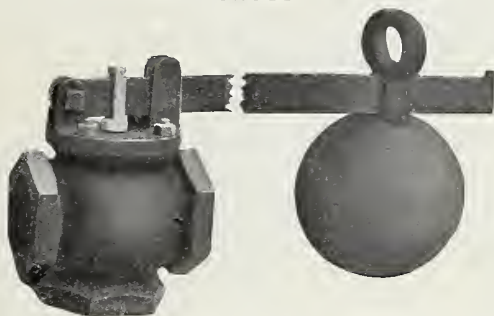


FIG. H-414

## SCREWED

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Each	\$3.50	4.00	5.00	5.80	7.80	13.25	17.25	23.00
Jenkins' Disc, each	4.50	5.00	7.00	8.00	11.00	17.00	22.00	31.00

Size, inches	4	$4\frac{1}{2}$	5	6	7	8
Each	\$28.75	34.50	41.50	57.75	93.50	132.00
Jenkins' Disc, each	38.00	47.00	55.00	73.00	---	---

## FLANGED

Size, inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Each	\$5.50	6.75	7.75	10.25	16.00	21.50	27.50
Jenkins' Disc, each	---	---	---	12.25	19.00	25.50	34.00

Size, inches	4	$4\frac{1}{2}$	5	6	7	8
Each	\$34.00	40.00	48.00	65.00	100.00	140.00
Jenkins' Disc, each	42.00	52.00	62.00	80.00	---	---

## Angle—(Not Illustrated)

## SCREWED

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Standard, each	\$3.50	4.00	5.00	5.80	7.80	13.25	17.25

Size, inches	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	8
Standard, each	\$23.00	28.75	34.50	41.50	57.75	93.50	132.00

## FLANGED

Size, inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Standard, each	\$5.50	6.75	7.75	10.25	16.00	21.50	27.50

Size, inches	4	$4\frac{1}{2}$	5	6	7	8
Standard, each	\$34.00	40.00	48.00	65.00	100.00	140.00

# IRON BODY SAFETY VALVE

LOW PRESSURE  
WITH BALANCE WEIGHT

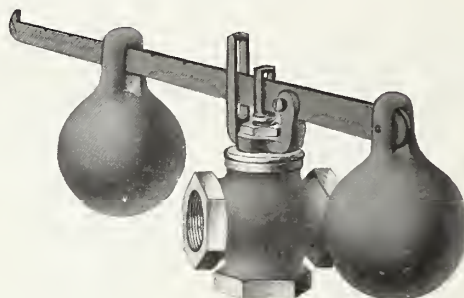


FIG. H-415

Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Globe or Angle Pattern, each	\$3.75	5.25	6.50	8.50	14.00	19.00

## Iron Body Back Pressure Valves

SCREWED

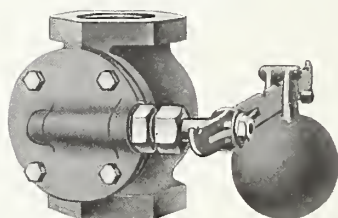


FIG. H-416

FLANGED

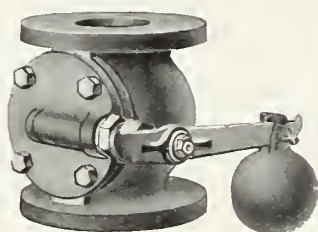


FIG. H-417

FIG. H-416—SCREWED

Size, inches	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$
Standard, each	\$9.00	11.00	13.00	15.00	19.00	22.50	28.50
Jenkins', each	---	8.00	9.00	11.00	14.00	16.00	18.00

Size, inches	5	6	7	8	10	12
Standard, each	\$33.50	43.00	70.00	85.00	120.00	180.00
Jenkins', each	24.00	32.00	---	58.00	---	---

FIG. H-417—FLANGED

Size, inches	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5
Standard, each	\$10.50	12.75	15.00	17.50	22.00	26.00	32.00	37.00
Jenkins', each	---	9.00	10.00	13.00	16.00	18.00	22.00	26.00

Size, inches	6	7	8	10	12	14	16
Standard, each	\$47.00	75.00	90.00	130.00	200.00	350.00	475.00
Jenkins', each	34.00	---	58.00	---	---	---	---

STANDARD IRON BODY VALVES  
Throttle Valves

GATE

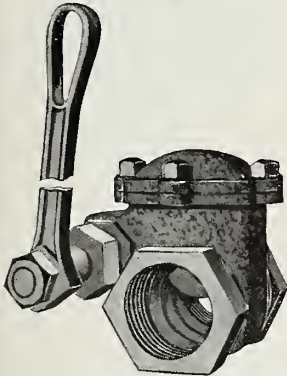


FIG. H-418

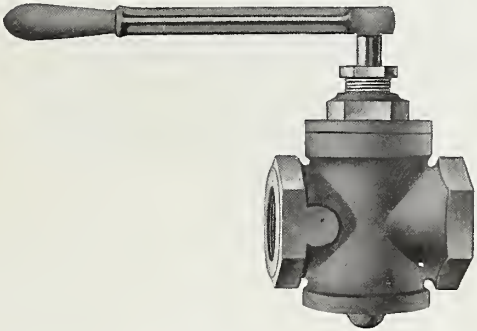


FIG. H-419

Size, inches	1	1¼	1½	2	2½	3
Fig. H-418—Screwed, each	—	—	—	\$7.00	12.00	15.00
Fig. H-419—Screwed, each	\$10.00	12.50	15.00	22.50	30.00	40.00
Fig. H-419—Flanged, not shown, each	11.00	13.50	16.50	24.00	32.00	42.50

Size, inches	3½	4	4½	5	6	7
Fig. H-418—Screwed, each	\$18.00	21.00	25.00	30.00	35.00	—
Fig. H-419—Screwed, each	50.00	60.00	88.00	106.00	120.00	140.00
Fig. H-419—Flanged, not shown, each	53.00	64.00	91.00	110.00	125.00	145.00

Butterfly Valves

SCREWED



FIG. H-420

FLANGED

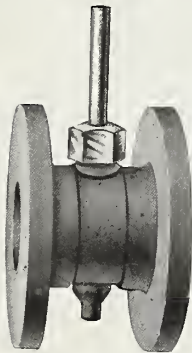


FIG. H-421

FIG. H-420—SCREWED

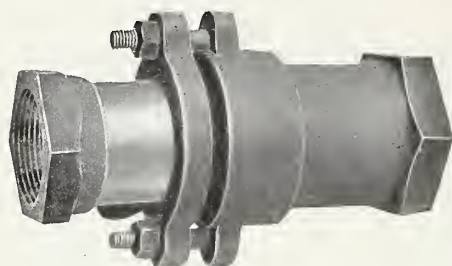
Size, inches	1¼	1½	2	2½	3	3½	4	5	6
Each	\$6.35	7.00	8.00	9.50	12.00	16.00	18.50	28.50	42.50

FIG. H-421—FLANGED

Size, inches	1¼	1½	2	2½	3	3½	4	5	6	8	10	12
Each	\$7.50	8.50	9.50	11.50	15.00	19.00	22.00	32.00	47.00	90.00	125.00	160.00

## STANDARD EXPANSION JOINTS

## IRON BODY—BRASS SLEEVE

FIG. H-422—SCREWED  
STANDARD TRAVERSE

Size, in.-----	2	2½	3	3½
Traverse, in.---	2½	2½	2¾	3
Each-----	\$7.00	8.00	10.00	14.00
Size, in.-----	4	5	6	7
Traverse, in.---	3¾	4	5	6
Each-----	\$18.00	38.00	45.00	70.00
Size, in.-----	8	9	10	12
Traverse, in.---	7	7	7	8
Each-----	\$100.00	110.00	160.00	225.00

FIG. H-422—SCREWED. SPECIAL TRAVERSE

Traverse, Size, inches	2	2½	3	3½	4	5	6	7	8
6 inches, each-----	\$11.00	13.00	17.50	25.00	30.00	45.00	55.00	-----	-----
10 inches, each-----	16.00	19.00	25.00	35.00	42.00	62.00	80.00	100.00	140.00
12 inches, each-----	18.50	22.00	29.00	40.00	48.00	70.00	92.50	115.00	160.00
14 inches, each-----	21.00	25.00	33.00	45.00	54.00	78.00	-----	-----	-----
16 inches, each-----	23.50	28.00	37.00	50.00	60.00	86.00	-----	-----	-----
18 inches, each-----	26.00	31.00	41.00	55.00	66.00	-----	-----	-----	-----

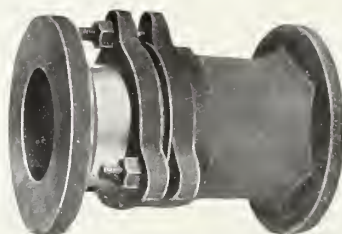


FIG. H-423

FIG. H-423—FLANGED. STANDARD TRAVERSE

Size, inches-----	2	2½	3	3½	4	5	6	7
Traverse, inches---	2½	2½	2¾	3	3¾	4	5	6
Diameter of Flanges, inches	6	7	7½	8½	9	10	11	12½
Each-----	\$15.00	16.00	18.50	25.00	30.00	48.00	55.00	80.00
Size, inches-----	8	9	10	12	14	15	16	
Traverse, inches---	7	7	7	8	10	10	10	
Diameter of Flanges, inches	13½	15	16	19	21	22¼	23½	
Each-----	\$110.00	120.00	175.00	250.00	500.00	500.00	600.00	

FIG. H-423—FLANGED. SPECIAL TRAVERSE

Traverse, Size, inches	2	2½	3	3½	4	5	6	7	8
6 inches, each-----	\$18.00	20.00	25.00	35.00	40.00	55.00	65.00	-----	-----
10 inches, each-----	23.00	26.00	32.50	45.00	52.00	72.00	90.00	112.00	150.00
12 inches, each-----	25.50	29.00	36.50	50.00	58.00	80.00	102.50	127.00	170.00
14 inches, each-----	28.00	32.00	40.50	55.00	64.00	88.00	-----	-----	-----
16 inches, each-----	30.50	35.00	44.50	60.00	70.00	96.00	-----	-----	-----
18 inches, each-----	33.00	38.00	48.50	65.00	76.00	-----	-----	-----	-----

The expansion will average about 1 inch in 50 feet of pipe.





FIG. H-424

## STANDARD IRON COCK

SQUARE OR FLAT HEAD

## SCREWED

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
All Iron, each	.85	.90	1.05	1.30	1.60	1.95	2.70
With Brass Plug, each	1.25	1.30	1.60	1.90	2.65	3.75	5.25
Size, inches	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6	
All Iron, each	\$4.40	6.75	12.00	15.50	32.00	45.00	
With Brass Plug, each	8.75	13.00	27.50	36.50	67.00	94.00	

## FLANGED

Size, inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	
All Iron, each	\$2.25	2.75	3.25	4.25	6.25	
With Brass Plug, each	3.00	3.75	5.00	7.00	10.50	
Size, inches	3	$3\frac{1}{2}$	4	5	6	
All Iron, each	\$9.50	15.00	19.00	36.00	50.00	
With Brass Plug, each	15.75	30.00	40.00	70.00	100.00	

## STANDARD IRON COCK

Three-way

SQUARE OR FLAT HEAD



FIG. H-425

## SCREWED

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
All Iron, each	\$1.65	1.80	2.05	2.65	3.65	5.35
With Brass Plug, each	2.20	2.40	3.10	4.50	6.25	9.75
Size, inches	3	$3\frac{1}{2}$	4	5	6	
All Iron, each	\$7.50	14.00	19.00	36.50	52.00	
With Brass Plug, each	13.75	30.00	40.00	71.50	100.00	

## FLANGED

Size, inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	
All Iron, each	\$3.75	4.25	5.25	7.00	9.00	
With Brass Plug, each	4.50	5.25	7.00	9.50	13.25	
Size, inches	3	$3\frac{1}{2}$	4	5	6	
All Iron, each	\$12.75	20.00	26.00	44.00	60.00	
With Brass Plug, each	19.00	36.00	47.00	80.00	108.00	

For Iron Lever Handle Wrenches, see page 116.

## AMMONIA VALVES

## Gland End

GLOBE

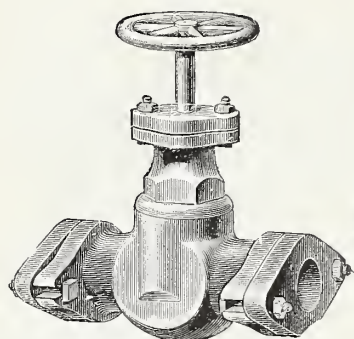


FIG. H-426

ANGLE

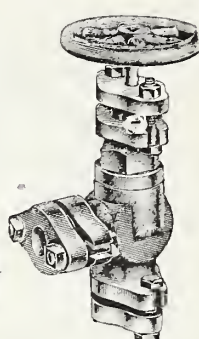


FIG. H-427

CHECK

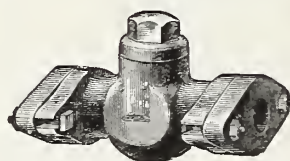


FIG. H-428

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. H-426—Globe, each	\$3.00	4.00	5.00	6.50	8.00	9.00	11.80	17.00	22.00	29.00	75.00	94.00
Fig. H-427—Angle, each	3.00	4.00	5.00	6.50	8.00	9.00	11.80	17.00	22.00	29.00	75.00	94.00
Fig. H-428—Check, each	2.15	3.00	3.50	4.50	7.50	8.50	9.50	10.25	15.00	18.50	60.00	70.00

## Needle Expansion Valves

GAUGE

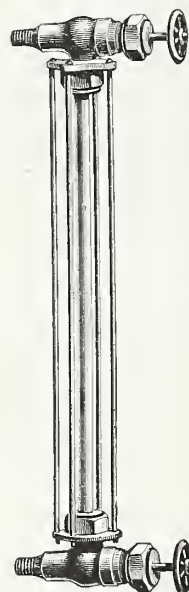


FIG. H-431

GLOBE



FIG. H-429

GLOBE, LOCK SHIELD

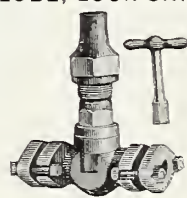


FIG. H-430

FIGS. H-429 AND H-430

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Globe or Angle, each	\$4.50	6.00	7.50	9.75	12.00	13.50	17.70

Lock Shield Valve,  $\frac{1}{2}$  INCH SIZE ONLY, Globe or Angle, each, 8.50

## FIG. H-431—AUTOMATIC LIQUID AMMONIA GAUGES

Furnished in standard length guards and glass tubes for 16 inch center of openings, but can be made to any length, at a slight additional cost.

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1
Standard, each	\$10.00	12.50	15.00
Extra Heavy, each	12.50	15.00	20.00

## AMMONIA FITTINGS

ELBOW



FIG. H-432

Gland End

TEE

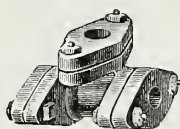


FIG. H-433

CROSS

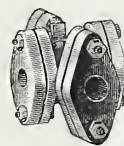


FIG. H-434

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. H-432—Elbows, each	.50	.65	.80	1.05	1.60	2.15	3.05	4.20	6.80	11.00	12.00	14.00
Elbows—Reducing, each	.70	.90	1.05	1.40	2.10	2.70	3.80	5.35	8.30	13.50	15.00	18.00
Fig. H-433—Tees, each	.75	1.05	1.20	1.55	2.50	3.00	4.40	7.75	11.00	15.50	18.00	19.00
Tees, Reducing, each	.95	1.30	1.55	2.05	3.25	3.75	5.40	9.75	13.25	18.75	22.00	24.00
Fig. H-434—Crosses, each		1.52	1.80	2.30	4.00	5.00						
Crosses, Reducing, each		1.75	2.25	3.00	5.00	6.00						

Complete as shown

## RETURN BEND—DIVIDED PATTERN

RETURN BEND

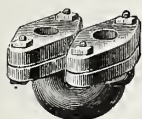


FIG. H-435

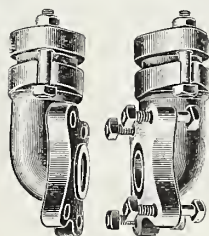


FIG. H-436

BRINE RETURN BEND

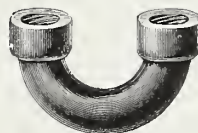


FIG. H-437

## FIGS. H-435 AND H-436—REGULAR AND DIVIDED PATTERNS

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	2	$2\frac{1}{2}$	3	4
Center to Center, inches	$2\frac{1}{2}$	$3\frac{1}{2}$	$3\frac{3}{4}$	$3\frac{3}{4}$	$4\frac{1}{4}$	$5\frac{1}{8}$	$4\frac{1}{4}$	$5\frac{1}{4}$	$5\frac{1}{4}$	$6\frac{1}{2}$
Each	\$1.50	2.00	3.00	5.00	5.00	6.20	6.20	7.50	9.50	16.75
Divided Pattern Condenser Return Bends, 2 in. only; C. to C., $4\frac{1}{4}$ in., each										9.00

## FIG. H-437—BRINE RETURN BENDS

Size, inches	1	1	1	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Center to Center, inches	$3\frac{1}{2}$	4	6	4	6	$\frac{7}{4}$	6
Plain, each	.35	.38	.50	.45	.60	.75	.90
Galvanized, each	.70	.76	1.00	.90	1.20	1.50	1.80

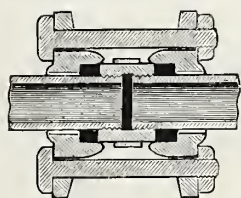


FIG. H-438

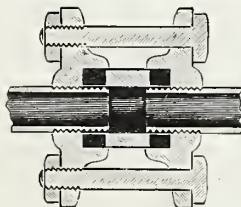


FIG. H-439

## FIG. H-438—COUPLING, AND FIG. H-439—BOYLE UNION

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Number of Bolts	$\frac{2}{2}$	$\frac{2}{2}$	$\frac{2}{2}$	$\frac{2}{2}$	2	$\frac{2}{2}$	$\frac{2}{2}$	3	4	4	4	4
Each	.38	.53	.68	.90	1.20	1.50	2.15	2.80	4.80	6.20	9.00	12.00

## STANDARD I. B. FOOT VALVES

SCREWED

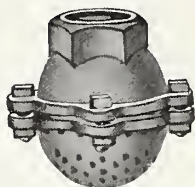


FIG. H-440

FLANGED



FIG. H-441

PLAIN, WITH STRAINER



FIG. H-442

## FOOT VALVES, WITH STRAINERS

Size, inches	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2
Fig. H-440—Screwed, Painted, each	.42	.42	.42	.48	.62	.82	1.20	1.70	2.50
Fig. H-440—Screwed, Galvanized, each	.60	.60	.60	.75	1.00	1.45	2.00	2.70	3.90
Fig. H-441—Flanged, Painted, each	---	---	---	---	---	---	2.10	2.25	3.00
Fig. H-441—Flanged, Galvanized, each	---	---	---	---	---	---	3.00	3.50	4.50
Size, inches	4	4 1/2	5	6	8	10	12	14	16
Fig. H-440—Screwed, Painted, each	\$2.75	4.00	4.25	7.00	16.00	29.00	58.00	---	---
Fig. H-440—Screwed, Galvanized, each	4.25	6.00	6.50	10.00	30.00	50.00	90.00	---	---
Fig. H-441—Flanged, Painted, each	3.60	4.75	5.00	8.00	16.50	30.00	60.00	---	---
Fig. H-441—Flanged, Galvanized, each	5.50	7.25	7.50	12.00	32.00	52.00	95.00	---	---

8, 10 and 12 inch are extra heavy, with Faced and Leaded Joints and solid Brass Axles.

## PLAIN IRON BODY FOOT VALVE, WITH STRAINER

FIG. H-442

Size, inches	1	1 1/4	1 1/2	2	2 1/2	3
Each	\$1.30	1.40	1.90	2.40	3.30	3.90

## CAST IRON STRAINER



FIG. H-443

Size of Pipe, inches	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Screwed, Painted, each	.30	.30	.40	.50	.75	1.00	1.50	2.00
Screwed, Galvanized, each	.40	.40	.50	.75	1.00	1.50	2.00	3.00
Flanged, Painted, each	---	---	---	---	---	---	2.40	2.75
Flanged, Galvanized, each	---	---	---	---	---	---	3.50	4.00
Size of Pipe, inches	3 1/2	4	4 1/2	5	6	7	8	10
Screwed, Painted, each	\$3.00	3.75	4.75	4.75	6.50	12.00	12.00	---
Screwed, Galvanized, each	4.50	6.00	7.00	7.00	10.00	20.00	20.00	---
Flanged, Painted, each	3.90	4.75	6.25	6.25	9.75	18.00	18.00	---
Flanged, Galvanized, each	5.25	7.00	9.00	9.00	14.00	25.00	25.00	---

All Flanged Strainers are Faced.  
Prices of Larger Sizes on application.



## IRON BODY BRONZE MOUNTED DOUBLE GATE VALVES

SCREWED



FIG. H-444

FLANGED

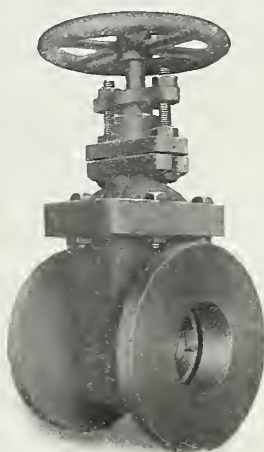


FIG. H-445

FIGS. H-444 AND H-445

Size, inches		$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
CHAPMAN	{ Screwed	\$2.20	2.20	2.35	2.75	3.30	3.75	4.75
	{ Flanged	---	---	2.85	3.25	4.00	4.50	5.50
LUDLOW	{ Screwed	---	---	---	---	5.00	5.50	6.00
	{ Flanged	---	---	---	---	5.50	6.00	6.25
Size, inches		2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5
CHAPMAN	{ Screwed	\$6.25	9.00	11.75	14.50	17.00	23.50	23.50
	{ Flanged	6.70	9.00	11.75	15.00	17.50	23.50	23.50
LUDLOW	{ Screwed	7.00	10.25	12.25	16.50	18.00	23.00	25.00
	{ Flanged	7.50	10.75	13.25	17.50	18.50	23.50	25.50
KENNEDY	{ Screwed	10.00	12.00	15.00	18.00	20.00	23.00	25.00
	{ Flanged	10.00	12.00	15.00	18.00	20.00	23.00	25.00
JENKINS	{ Screwed	8.00	12.00	15.00	18.00	21.00	29.00	30.00
	{ Flanged	9.00	13.00	16.00	19.00	22.50	31.00	32.00
Size, inches		6	7	8	9	10	12	
CHAPMAN	{ Screwed	\$29.50	37.00	45.00	57.00	72.00	101.00	
	{ Flanged	28.25	34.50	42.50	53.50	67.00	89.00	
LUDLOW	{ Screwed	30.50	38.00	45.00	---	64.00	82.50	
	{ Flanged	31.00	38.00	43.50	----	64.50	80.00	
KENNEDY	{ Screwed	30.00	45.00	55.00	80.00	90.00	125.00	
	{ Flanged	30.00	45.00	55.00	80.00	90.00	125.00	
JENKINS	{ Screwed	36.00	50.00	62.00	71.00	85.00	120.00	
	{ Flanged	38.00	50.00	62.00	71.00	85.00	120.00	

Prices for larger sizes on application.



# IRON BODY GATE VALVE

With Sliding Stem and Lever

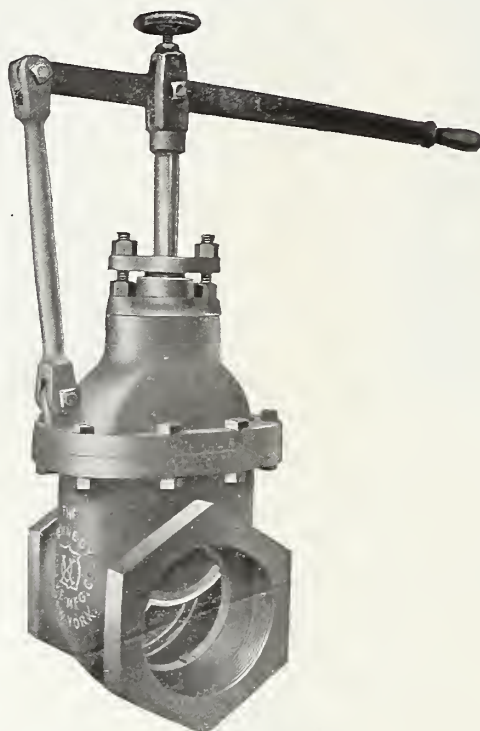


FIG. H-446

Size, inches	2	2½	3	3½	4	4½	5	6	7	8
KENNEDY.										
Screwed		\$18.00	22.00	25.00	27.00	31.00	34.00	40.00	57.00	69.00
Flanged		18.00	22.00	25.00	27.00	31.00	34.00	40.00	57.00	69.00
LUDLOW.										
Screwed	\$8 25	12.00	14.25	18.50	20.00	25.25	27.25	32.75	40.25	47.25
Flanged	8.75	12.50	15.25	19.50	20.50	25.75	27.75	33.25	40.25	45.75
CHAPMAN.										
Screwed		11.10	13.75	17.75	20.25	27.25	27.25	34.50	42.00	53.75
Flanged		11.35	14.25	18.25	20.75	27.25	27.25	33.25	39.50	51.25
JENKINS.										
Screwed	10.00	14.25	17.50	20.75	24.00		33.25	39.50	53.75	66.00
Flanged	11.00	15.25	18.50	21.75	25.50		35.25	41.50	53.75	66.00

## IRON BODY WATER GATE

Bronze Mounted, Bell and Spigot Ends

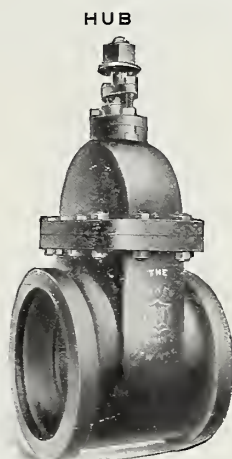
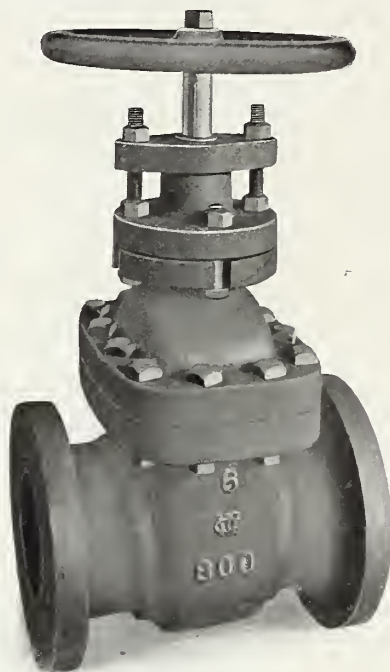


FIG. H-447

KENNEDY.							
Size, inches	2	3	4	6	8	10	12
Bell Ends	\$10.00	15.00	20.00	30.00	55.00	90.00	125.00
Spigot Ends	Prices on application						
With Sliding Stem and Lever	Prices on application						
Size, inches	14	15	16	18	20	22	24
Bell or Spigot Ends	Prices on application						
With Sliding Stem and Lever	Prices on application						
LUDLOW.							
Size, inches	2	3	4	6	8	10	12
Bell Ends	\$7.00	14.50	17.00	28.00	42.00	60.00	76.00
Spigot Ends	7.25	15.00	17.50	28.75	43.25	62.50	79.50
Add for Slid'g Stem and Lever	1.25	2.00	2.00	2.25	2.25	3.25	4.00
Size, inches	14	15	16	18	20	22	24
Bell Ends	\$122.00	138.00	143.00	205.00	242.00	315.00	375.00
Spigot Ends	127.00	146.00	152.00	217.00	254.00	315.00	390.00
CHAPMAN.							
Size, inches	2	3	4	6	8	10	12
Bell Ends	\$9.50	12.75	19.50	29.00	43.00	65.00	87.00
Spigot Ends	9.50	12.75	19.50	29.00	43.00	66.00	90.00
Size, inches	14	15	16	18	20	22	24
Bell Ends	\$114.00	137.00	147.00	193.00	229.00	263.00	337.00
Spigot Ends	117.00	141.00	152.00	199.00	235.00	269.00	343.00
JENKINS.							
Size, inches	2	3	4	6	8	10	12
Bell Ends	\$9.00	15.00	21.00	36.00	62.00	85.00	120.00

Prices for larger sizes on application.

**IRON BODY BRONZE MOUNTED  
EXTRA HEAVY GATE VALVE  
FOR WORKING PRESSURE UP TO 250 POUNDS**



**FIG. H-448**

**SCREWED**

Size, inches	2	2½	3	3½	4	4½
Kennedy		\$35.00	40.00	45.00	50.00	---
Chapman	12.00	21.50	26.50	29.50	35.00	44.50
Ludlow	11.00	15.00	19.50	21.50	24.00	33.00
Size, inches	5	6	7	8	10	12
Kennedy	\$65.00	80.00	100.00	120.00	200.00	300.00
Chapman	52.00	63.50	75.50	90.00	---	---
Ludlow	38.00	49.50	59.00	69.00	---	---

**FLANGED**

Size, inches	2	2½	3	3½	4	4½
Kennedy		\$35.00	40.00	45.00	50.00	---
Chapman	13.50	22.50	28.50	31.50	37.50	46.50
Ludlow	13.50	19.00	23.50	25.25	28.00	36.00
Size, inches	5	6	7	8	10	12
Kennedy	\$65.00	80.00	100.00	120.00	200.00	300.00
Chapman	54.00	66.50	81.50	96.50	138.00	190.00
Ludlow	41.00	55.00	64.50	73.00	110.00	148.00

Prices for larger sizes on application.

## SPECIAL FIRE OR INDICATOR VALVE

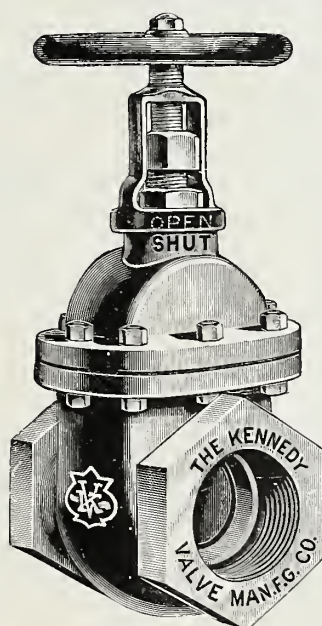


FIG. H-449

## BRASS—SCREWED

Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4
Kennedy			\$9.25	13.75	20.25	27.25	41.00	51.75
Chapman	\$3.80	4.55	5.75	8.20	13.15	18.50	32.75	41.50

## BRASS—FLANGED

Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4
Kennedy			\$11.25	17.75	24.25	32.25	49.00	59.75
Chapman	\$5.25	6.25	8.50	11.75	18.15	22.75	40.25	48.75

## IRON BODY—SCREWED

Size, inches	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$
Kennedy	\$13.75	16.50	20.25	24.00	26.75	30.00
Chapman		\$11.00	13.50	15.50	18.50	21.00

Size, inches	5	6	7	8	10	12
Kennedy	\$32.50	39.00	53.50	65.00	85.00	113.00
Chapman	24.00	30.00	37.50	47.00	70.50	92.00

## IRON BODY—FLANGED

Size, inches	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$
Kennedy	\$13.75	17.00	20.75	25.00	27.25	31.00
Chapman		11.25	14.00	16.00	18.75	20.50

Size, inches	5	6	7	8	10	12
Kennedy	\$34.50	41.00	53.50	65.00	85.00	113.00
Chapman	23.50	29.00	36.00	45.00	65.00	84.00

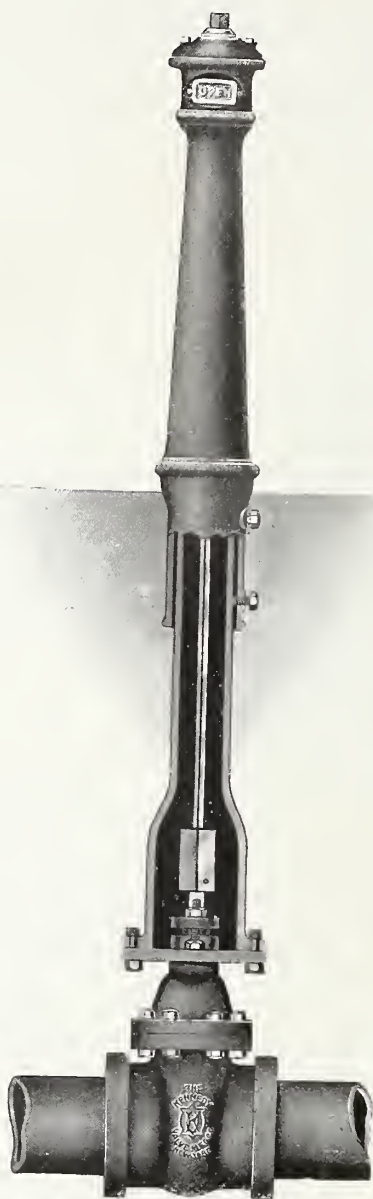


FIG. H-450

## INDICATOR POST

### "Underwriters" Approved Weather- proof Adjustable Post

This Indicator Post is designed expressly for water valves connected with street mains, and for use with valves for fire service in mill and factory yards.

This indicator shows plainly at a glance whether valve is open or closed.

Serious fire damage has often occurred by reason of valve being closed and water accidentally shut off from automatic sprinklers, and continuing shut off unknown to the superintendent or others in charge.

This indicator post can be supplied separate, and can be used on any make of valve.

Always state number of turns to open valve and whether valve opens by turning to the left or right.

Indicator Posts only, each	\$40.00
Wrenches for Top Nut, each	1.00
For increase in depth of trench, for each 6 inches,	
add	----- .80

For Post and Valve complete, add to price of Indicator Post as above given, the price of such style and size of Valve as is to be used.

NOTE.—When ordering give depth of Trench in which Post is to be set, measuring from surface of ground to bottom of connecting pipe.



## FIRE HYDRANT

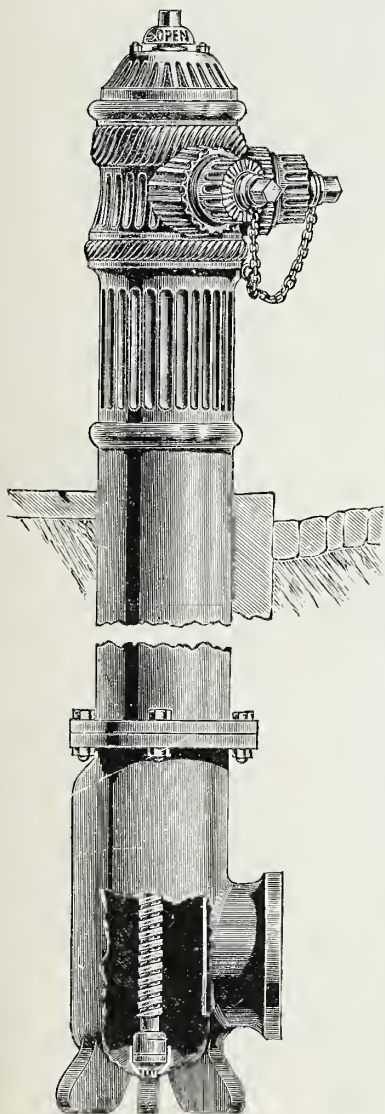


FIG. H-451

## Standard Price List for Fire Hydrants

Diameter of Pipe Connection, inches.	Inside Diameter of Stand Pipe, inches.	Diam. of Seat Ring or Gate Opening, in.	One 2 inch Nozzle.	One 2½ inch Nozzle.	Two 2½ inch Nozzles.	Three 2½ inch Nozzles.	Four 2½ inch Nozzles.	Six 2½ inch Nozzles.	One Steamster Nozzle.	One Steamster and one 2½ inch Nozzle.	One Steamster and two 2½ inch Nozzles.	One Steamster and three 2½ inch Nozzles.	One Steamster and four 2½ inch Nozzles.	Frost Case, Standard Length.	For each 6 inches more or less than Standard length of Stand Pipe, add to or deduct from List.	For each 6 inches more or less than Standard length of Frost Case, add to or deduct from List.	2½ inch Independent Nozzle Gate, each.
3 or 4	3	3	\$17.00	28.00	33.00	33.00	33.00	33.00	35.00	35.00	37.00	37.00	37.00	4.50	.45	.44	3.50
3 or 4	3	3	31.00	31.00	33.00	33.00	33.00	33.00	35.00	35.00	37.50	37.50	37.50	5.00	.50	.50	3.50
6	5 3/4	4	31.50	31.50	33.50	33.50	33.50	33.50	35.50	35.50	37.50	37.50	37.50	5.00	.50	.58	3.50
6	6 1/4	4 1/2	35.50	35.50	37.50	37.50	37.50	37.50	40.50	42.50	44.50	46.50	46.50	5.60	.85	.70	3.75
6	7	5	40.50	40.50	42.50	42.50	44.50	44.50	50.00	52.00	54.00	56.00	58.00	6.50	1.00	.90	3.75
6	8	6	50.00	50.00	52.00	54.00	54.00	54.00	54.00	54.00	54.00	56.00	59.25	7.50	1.00	.90	3.75
8	8	6	51.25	51.25	53.25	53.25	55.25	55.25	51.25	53.25	55.25	57.25	59.25	7.50	2.25	.90	3.75
8 or 10	10	8	—	—	—	—	—	130.00	—	—	—	—	—	11.00	2.25	1.30	4.50

The above prices are based on our standard length, viz.: five feet from ground surface to bottom of connecting pipe. Frost-cases are furnished if wanted.

## Price List of Secondary Gate for Hydrants

Subject to same Discount as Hydrants.

3 in. Connection with 3 in. Valve	\$9.25	5 in. Connection with 5 in. Valve	\$15.50
4 in. Connection with 4 in. Valve	12.50	6 in. Connection with 6 in. Valve	18.50
4½ in. Connection with 5 in. Valve	15.50	8 in. Connection with 8 in. Valve	27.00

## AIR COCKS

## FINISHED

## T HANDLE SINGLE THREAD

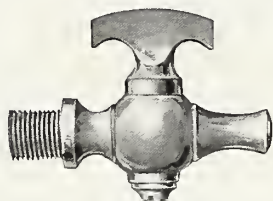


FIG. H-452

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Each	.40	.45	.50	.60

## LEVER HANDLE SINGLE THREAD

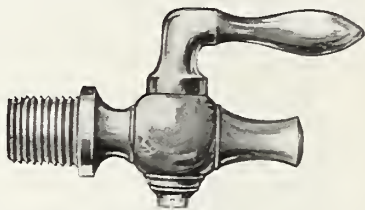


FIG. H-453

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Each	.55	.60	.65	.75

## T HANDLE DOUBLE THREAD

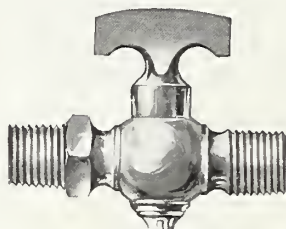


FIG. H-454

T. H. No	18	19	20	21
Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Each	.55	.65	.75	.90

## LEVER HANDLE DOUBLE THREAD

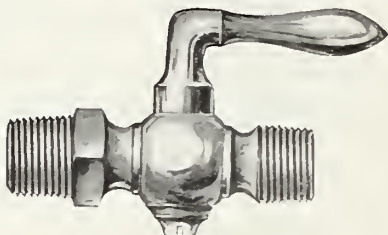


FIG. H-455

L. H. No	22	23	24	25
Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Each	.70	.80	.90	1.05

## T HANDLE SINGLE THREAD

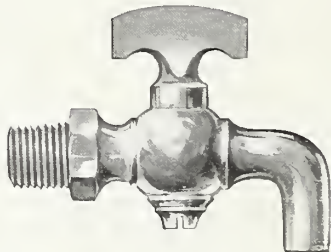


FIG. H-456

T. H. No	26	27	28	33
Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Single Thread, each	.70	.80	.90	1.00
Double Thread, each	.80	1.00	1.10	1.35

## LEVER HANDLE SINGLE THREAD

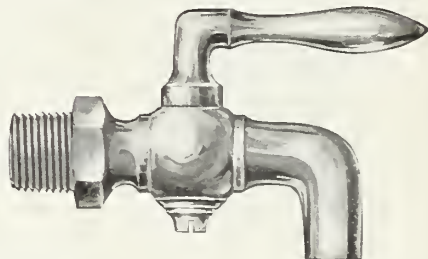


FIG. H-457

L. H. No	29	30	31	32
Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Single Thread, each	.85	.95	1.05	1.15
Double Thread, each	.95	1.15	1.25	1.50

## AIR COCKS

FINISHED

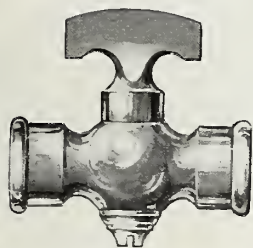


FIG. H-458

T. H. No.	37	38	39
Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
Each	.65	.70	.85

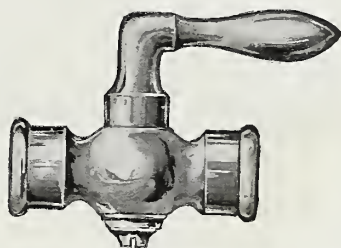


FIG. H-459

L. H. No.	43	44	45
Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$
Each	.80	.85	1.00

## Cylinder Cocks—Steam Metal

BIBB END WITH COUPLING

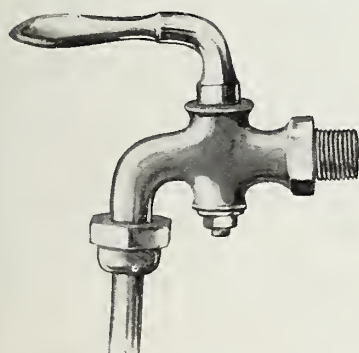


FIG. H-460

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Each	\$1.75	2.00	2.50	3.75

STRAIGHT

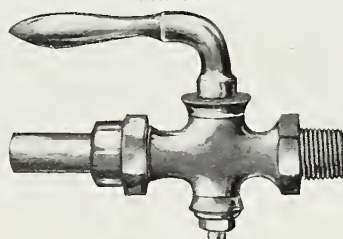


FIG. H-461

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Each	\$1.75	2.00	2.50	3.75

DOUBLE THREAD

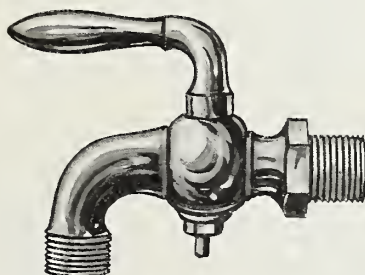


FIG. H-462

Size, inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Single Thread, each	\$1.15	1.30	1.85	2.60
Double Thread, each	1.25	1.50	2.10	2.70

COMPRESSION GAUGE COCKS

Wood Wheel

WITHOUT STUFFING BOX

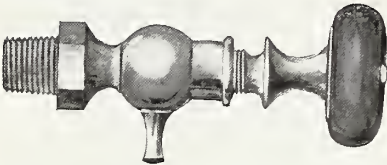


FIG. H-463

WITH STUFFING BOX



FIG. H-464

Cut for Pipe Thread, inches	3/8	1/2	3/4
Fig. H-463—Each	.95	1.00	1.25
Fig. H-464—Each	1.20	1.30	1.45
Fig. H-464—Each, Regrinding	1.05	1.30	1.80

STEAM GAUGE  
COCK

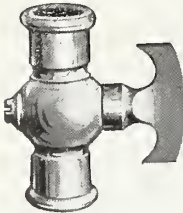


FIG. H-465

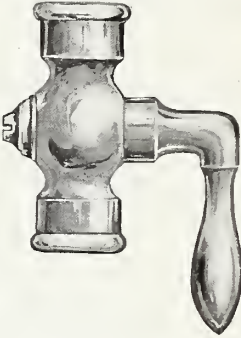


FIG. H-466

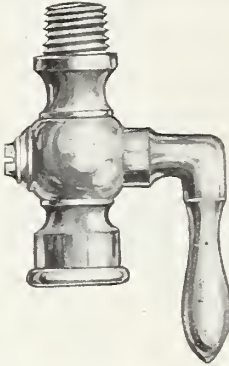


FIG. H-467

PRINDLES  
No. 1



FIG. H-468

1/4 inch. each	.75	Each	.90	Each	.90	Each	\$1.50
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Steam Gauge Syphons—Iron

VERTICAL



FIG. H-469

ANGLE



FIG. H-470

Fig. H-469—1/4 inch I. P., ea	.50
Fig. H-470—1/4 inch I. P., ea	.50

Weighted Gauge Cocks



FIG. H-471

Size, inches	3/8	1/2	3/4
Each	\$1.00	1.00	1.00



## POP SAFETY VALVES

For Stationary and Marine Boilers

IRON CASE AND BEST STEAM METAL

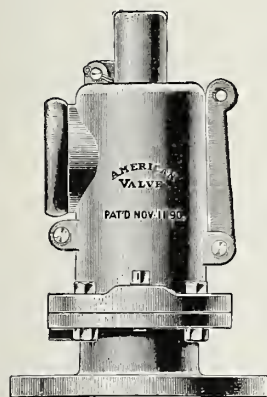


FIG. H-472

Size.	For Boilers, H. P.	Each
2 inches	30 to 40	\$30.00
2½ inches	40 to 75	50.00
3 inches	75 to 100	65.00
3½ inches	100 to 125	80.00
4 inches	125 to 150	100.00
4½ inches	150 to 175	115.00
5 inches	175 to 200	125.00
5½ inches	200 to 225	150.00
6 inches	225 and upwards	180.00

With Lock-Up, add, each ..... \$2.50

## Marine Pop Safety Valve

BOARD OF TRADE STANDARD

Size.	For Boilers, H. P.	Each.
2 inches	30 to 40	\$30.00
2½ inches	40 to 75	50.00
3 inches	75 to 100	65.00
3½ inches	100 to 125	80.00
4 inches	125 to 150	100.00
4½ inches	150 to 175	115.00
5 inches	175 to 200	125.00
5½ inches	200 to 225	150.00
6 inches	225 and upwards	180.00

Full particulars on application.

Always state the pressure valve shall be set at, size of boiler and diameter of base flange.

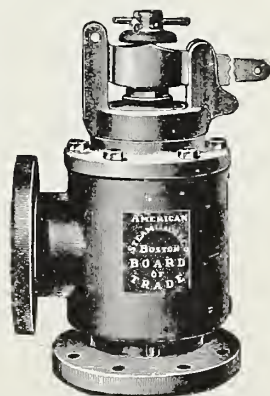


FIG. H-473



# POP SAFETY VALVES

For Portable Farm and Hoisting Engines

## BRASS

$\frac{1}{2}$ inch for Boilers, 3 to 6 H. P., each.....	\$10.00
$\frac{3}{4}$ inch for Boilers, 3 to 6 H. P., each.....	10.00
1 inch for Boilers, 3 to 10 H. P., each.....	12.00
$1\frac{1}{4}$ inch for Boilers, 10 to 20 H. P., each.....	15.00
$1\frac{1}{2}$ inch for Boilers, 20 to 30 H. P., each.....	20.00
2 inch for Boilers, 30 to 40 H. P., each.....	30.00



FIG. H-474

# PORTABLE AND MARINE VALVES

## BRASS

$\frac{3}{4}$ inch for Boilers, 3 to 6 H. P., each.....	\$10.00
1 inch for Boilers, 3 to 10 H. P., each.....	12.00
$1\frac{1}{4}$ inch for Boilers, 10 to 20 H. P., each.....	15.00
$1\frac{1}{2}$ inch for Boilers, 20 to 30 H. P., each.....	20.00
2 inch for Boilers, 30 to 40 H. P., each.....	30.00
$2\frac{1}{2}$ inch for Boilers, 40 to 75 H. P., each.....	50.00
3 inch for Boilers, 75 to 100 H. P., each.....	65.00
$3\frac{1}{2}$ inch for Boilers, 100 to 125 H. P., each.....	80.00

# FOR MARINE AND STATIONARY BOILERS

## Yacht Style

## BRASS

$\frac{3}{4}$ inch, Brass, for 5 H. P. Boilers, each.....	\$10.00
1 inch, Brass, for 5 to 10 H. P. Boilers, each.....	12.00
$1\frac{1}{4}$ inch, Brass, for 10 to 20 H. P. Boilers, each.....	15.00
$1\frac{1}{2}$ inch, Brass, for 20 to 30 H. P. Boilers, each.....	20.00
2 inch, Brass, for 30 to 40 H. P. Boilers, each.....	30.00
$2\frac{1}{2}$ inch, Brass, for 40 to 50 H. P. Boilers, each.....	50.00

When ordering, state whether for marine or stationary use.



FIG. H-475

## WATER RELIEF VALVES

BRASS

FIG. H-476—BRASS

Size, in.	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Each	\$10.00	12.00	15.00	20.00
Size, inches	2	$2\frac{1}{2}$	3	
Each	\$30.00	65.00	80.00	

FIG. H-477—IRON BODY

Size, inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Screwed, ea.	\$30.00	50.00	65.00	80.00
Flanged, ea.		50.00	65.00	80.00
Size, inches	4	5	6	
Screwed, each	\$100.00	150.00	200.00	
Flanged, each	100.00	150.00	200.00	

In ordering, state pressure to be carried.



FIG. H-476

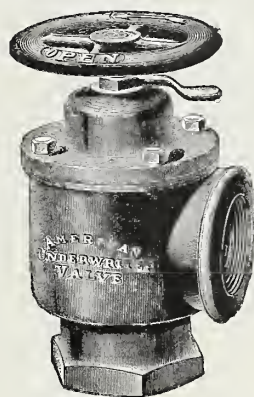


FIG. H-477

## All Brass Watson Water Reducing Valves

(Patent applied for)

STANDARD PATTERN

DIAPHRAGM PATTERN

RELIEF VALVE FOR  
WATER PIPES

FIG. H-478



FIG. H-479



FIG. H-480

Fig. H-478—For reducing pressures 200 pounds or less, to not less than 10 pounds.

Fig. H-479—Will reduce pressure to any lower pressure, on the outlet, from 1 to 15 pounds.

Fig. H-480—To prevent excessive water pressure, for use on steam pumps, cylinders, feed water heaters, or in connection with reducing valve to prevent an accumulation of pressure on the light side.

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Fig. H-478—Each	\$7.00	7.00	8.50	11.50	15.00	25.00	---	---
Fig. H-479—Each	---	14.00	17.00	22.00	28.00	---	---	---
Fig. H-480—Each	6.00	8.00	10.00	12.00	14.00	18.00	24.00	30.00

In ordering, state purpose for which valve is wanted, high pressure and pressure wanted on the reduced side.

REDUCING VALVES FOR WATER

MUELLER

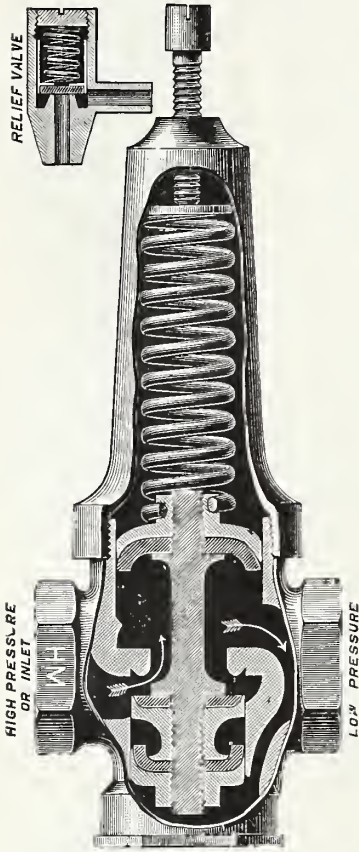


FIG. H-481

FIG. H-482

Size of Pipe.	Each.
$\frac{3}{4}$ inch	\$7.00
1 inch	10.00
$1\frac{1}{4}$ inch	14.00
$1\frac{1}{2}$ inch	20.00

Above 2 inch valves are made with screw sockets or flanges.

FIG. H-481

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
For Iron Pipe	\$10.00	10.00	13.00	17.50	24.00
For Lead Pipe	10.50	10.50	13.70		

Size, inches	2	$2\frac{1}{2}$	3	4
For Iron Pipe	\$40.00	55.00	70.00	90.00

Prices on Regulators from 6 to 20 inch, quoted on application.

With its use, a uniform low pressure is maintained in the house supply pipes regardless of the high pressure in the mains.

All Regulators to 1 inch inclusive are provided with a Relief Valve to relieve the expansion of hot water.

ROSS  
SCREWED TOP WITH COUPLINGS

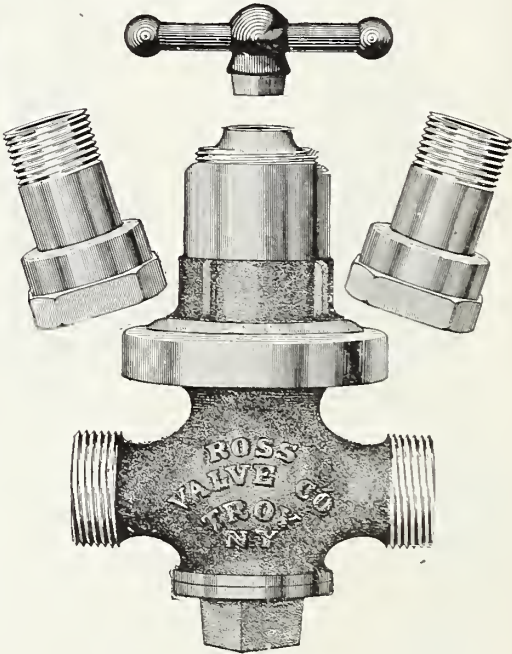


FIG. H-482

## MONASH PRESSURE REGULATOR AND REDUCING VALVES

CLASS C-2

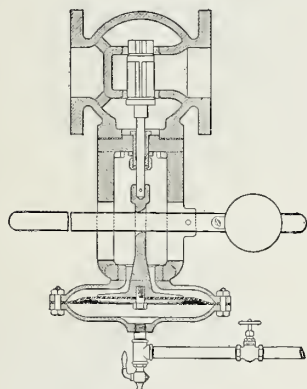


FIG. H-483

CLASS C-1

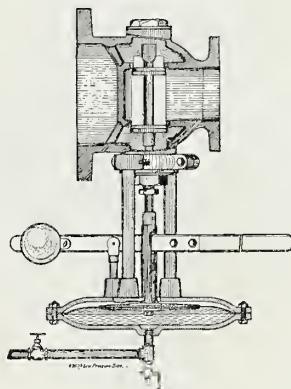


FIG. H-484

Size of Inlet and Outlet, Inches.	Each.	Size of Inlet and Outlet, Inches.	Each.
$\frac{3}{4} \times \frac{3}{4}$	\$43.00	$3\frac{1}{2} \times 3\frac{1}{2}$	\$140.00
1x1	45.00	4x4	165.00
$1\frac{1}{4} \times 1\frac{1}{4}$	50.00	5x5	225.00
$1\frac{1}{2} \times 1\frac{1}{2}$	60.00	6x6	300.00
2x2	75.00	7x7	375.00
$2\frac{1}{2} \times 2\frac{1}{2}$	90.00	8x8	450.00
3x3	115.00	10x10	580.00

Size of Inlet and Outlet, Inches.	Each.	Size of Inlet and Outlet, Inches.	Each.
$1\frac{1}{2} \times 3$	\$94.00	$3\frac{1}{2} \times 7$	\$230.00
2x4	110.00	4x8	275.00
$2\frac{1}{2} \times 5$	130.00	5x10	375.00
3x6	185.00	6x12	500.00

CLASS A

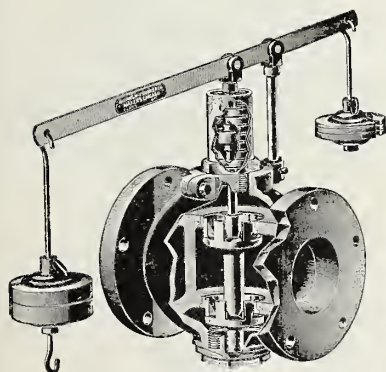


FIG. H-485

FIG. H-485

Size of Inlet and Outlet, Inches.	Each.	Size of Inlet and Outlet, Inches.	Each.
$\frac{3}{4} \times 1$	\$38.00	$3\frac{1}{2} \times 4$	\$87.00
$1 \times 1\frac{1}{4}$	40.00	4x5	105.00
$1\frac{1}{4} \times 1\frac{1}{2}$	44.00	5x6	135.00
$1\frac{1}{2} \times 2$	46.00	6x7	180.00
$2 \times 2\frac{1}{2}$	54.00	7x8	250.00
$2\frac{1}{2} \times 3$	63.00	8x10	340.00
$3 \times 3\frac{1}{2}$	72.00	10x12	450.00



### MASON REDUCING VALVE

This valve is designed to reduce and maintain an even steam or air pressure, regardless of the initial pressure. It will automatically reduce boiler pressure for steam heating coils, dry-rooms, paper-making machinery, slashers, dye-kettles, and all places where it is desirable to use lower pressure than that of the boiler.

To increase pressure, turn the key in the direction taken by the hands of a watch.

Size.	Each.	Size.	Each.
$\frac{1}{2}$ inch.....	\$18.00	3 inch.....	\$72.00
$\frac{3}{4}$ inch.....	18.00	$3\frac{1}{2}$ inch.....	85.00
1 inch.....	22.00	4 inch.....	100.00
$1\frac{1}{4}$ inch.....	28.00	5 inch.....	135.00
$1\frac{1}{2}$ inch.....	35.00	6 inch.....	180.00
2 inch.....	44.00	8 inch.....	250.00
$2\frac{1}{2}$ inch.....	57.00	10 inch.....	350.00



FIG. H-486

### MASON PUMP PRESSURE REGULATOR

For fire, tank, elevator, air and water-works pumps, or any class of pumping machinery where it is necessary to maintain a constant pressure. The regulator may be instantly adjusted to any pressure desired by simply turning the key as shown in the cut.

These regulators are made in all the pipe sizes; those up to and including 2-inch of the best steam metal; the largest sizes of cast-iron, lined with steam metal. The springs are made of the finest tool steel, tempered.

Each size, up to and including 2-inch, is furnished with couplings.

Size.	Each.	Size.	Each.
$\frac{1}{2}$ inch.....	\$20.00	2 inch.....	\$55.00
$\frac{3}{4}$ inch.....	20.00	$2\frac{1}{2}$ inch.....	68.00
1 inch.....	25.00	3 inch.....	85.00
$1\frac{1}{4}$ inch.....	30.00	$3\frac{1}{2}$ inch.....	100.00
$1\frac{1}{2}$ inch.....	42.00	4 inch.....	115.00

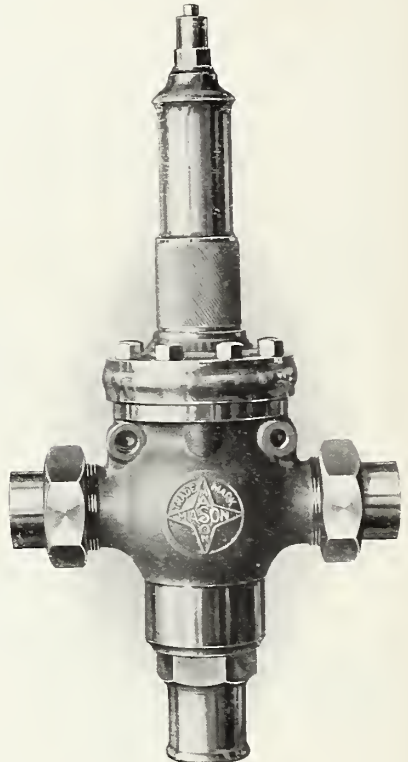
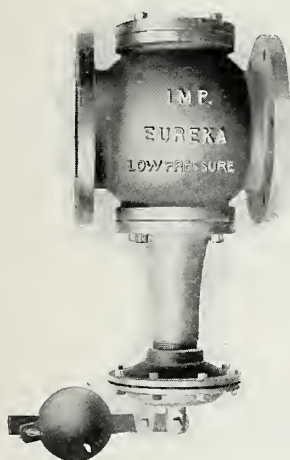
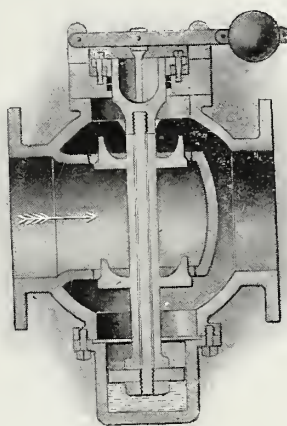


FIG. H-487



**KIELEY PRESSURE REGULATING VALVES****EUREKA LOW PRESSURE  
REGULATOR****FIG. H-488****KIELEY HIGH PRESSURE  
REGULATOR****FIG. H-489****LOW PRESSURE REGULATING VALVES**

For reducing steam, air or gas from the Initial or High Pressure down to any pressure on the reduced side LESS than 15 pounds, and from this point down to as low as one pound.

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Each	\$20.00	22.00	28.00	35.00	44.00	57.00	72.00	85.00
Face to Face, inches	$4\frac{1}{2}$	$4\frac{1}{2}$	$4\frac{1}{2}$	$4\frac{3}{4}$	6	$7\frac{1}{2}$	$8\frac{1}{2}$	$9\frac{1}{8}$
Size, inches	4	5	6	7	8	9	10	12
Each	\$100.00	135.00	180.00	225.00	275.00	350.00	350.00	470.00
Face to Face, inches	$10\frac{3}{4}$	$11\frac{3}{4}$	$12\frac{3}{4}$	$13\frac{3}{8}$	$14\frac{5}{8}$	$16\frac{1}{4}$	$16\frac{1}{4}$	$18\frac{1}{2}$

Sizes 2 inch and under have Screwed Ends,  $2\frac{1}{2}$  inch and larger Flanged Ends.

**HIGH PRESSURE REGULATING VALVES**

For reducing steam or air from the Initial or High Pressure down to any pressure on the reduced side ABOVE 15 pounds, that may be desired.

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Each	\$20.00	22.00	28.00	35.00	44.00	57.00	72.00	85.00
Face to Face, inches	$4\frac{1}{2}$	$4\frac{1}{2}$	$4\frac{1}{2}$	$4\frac{1}{2}$	$6\frac{1}{4}$	$7\frac{1}{2}$	$8\frac{1}{2}$	$9\frac{1}{2}$
Size, inches	4	5	6	7	8	9	10	12
Each	\$100.00	135.00	180.00	225.00	275.00	350.00	350.00	470.00
Face to Face, inches	$10\frac{1}{2}$	$11\frac{3}{4}$	$12\frac{3}{4}$	$13\frac{3}{4}$	$14\frac{1}{2}$	$16\frac{1}{2}$	$16\frac{1}{2}$	$18\frac{1}{2}$

Sizes 2 inch and under have Screwed Ends,  $2\frac{1}{2}$  inch and larger Flanged Ends.

## DAVIS STEAM PRESSURE REGULATORS

No. 1

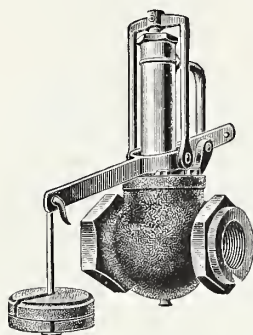


FIG. H-490

Designed for all purposes where there is no pulsation of pressure. Suitable for Steam Heating, Boiling, Drying, Distilling, and all places requiring a constant unvarying pressure below that of Boiler.

No. 2

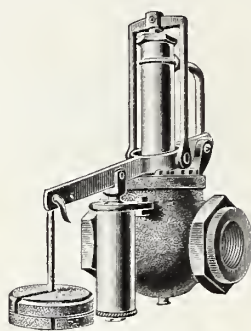


FIG. H-491

Same as No. 1, with the addition of Oil Cylinder (Dash Pot), which will prevent jumping or chattering under any conditions. For use when there is a pulsation or vibration in Low Pressure Pipes.

Size.	No. 1	No. 2
1 inch, Screwed Ends, each	\$22.00	\$27.00
1 1/4 inch, Screwed Ends, each	24.00	29.00
1 1/2 inch, Screwed Ends, each	25.00	30.00
2 inch, Screwed Ends, each	30.00	36.00
2 1/2 inch, Screwed Ends, each	35.00	42.00
3 inch, Screwed Ends, each	40.00	48.00
3 1/2 inch, Screwed Ends, each	50.00	58.00
4 inch, Screwed or Flanged Ends, 8 1/2 inch diameter, each	60.00	70.00
5 inch, Flanged Ends, 10 inch diameter, each	75.00	90.00
6 inch, Flanged Ends, 12 inch diameter, each	100.00	120.00
7 inch, Flanged Ends, 13 inch diameter, each	135.00	160.00
8 inch, Flanged Ends, 15 inch diameter, each	175.00	200.00
10 inch, Flanged Ends, 18 inch diameter, each	275.00	300.00
12 inch, Flanged Ends, 20 inch diameter, each	400.00	435.00

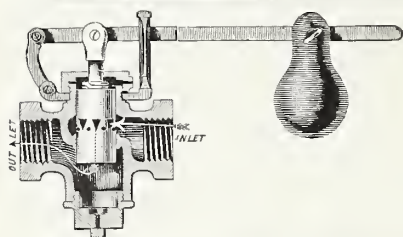
WATSON'S STEAM PRESSURE  
REGULATOR

FIG. H-492 BRASS REGULATORS—MADE SCREWED ENDS ONLY

Size, inches	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Brass, each	\$14.00	17.00	22.00	28.00	38.00	55.00	70.00	90.00

## IRON BODY—BRASS LINED—WITH FLANGES

Also Tapped for Screwing, and can be used either way.

Size, inches	2	2 1/2	3	4	5	6	7	8
Iron Body, each	\$38.00	55.00	70.00	90.00	110.00	150.00	180.00	210.00

## SPENCER DAMPER REGULATOR

With New Automatic Lubricating Device

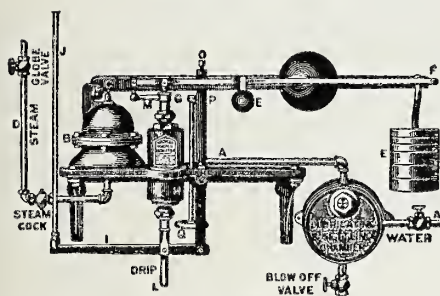


FIG. H-493

For Regulating High or Low Pressure Steam Boilers, Stoker Engines, Blower Engines, Reducing Pressure Valves, etc.

Put up on approval and the best obtainable results guaranteed.

Each .....\$125.00

## Clarke Damper Regulator

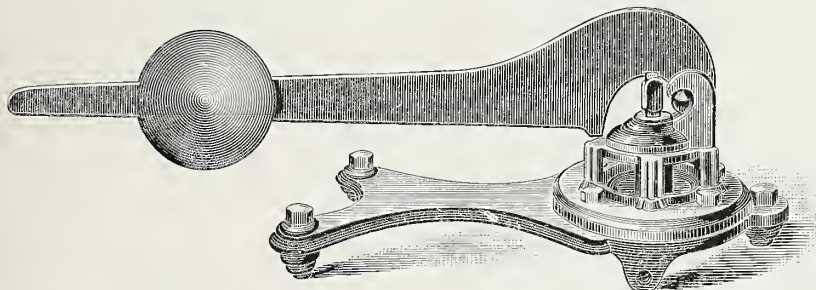


FIG. H-494

Number .....	1	2	3
Each .....	\$10.00	15.00	25.00
Capacity, horse power.....	5	20	30 and Larger.

## Low Pressure Damper Regulator

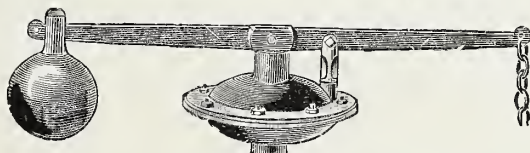


FIG. H-495

Each .....\$10.00

## Low Pressure Diaphragm



FIG. H-496

Diameter, inches .....	8	9	9½
Each .....	\$1.00	1.00	1.10

## PENBERTHY AUTOMATIC INJECTOR

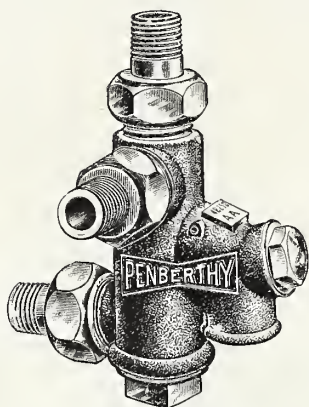


FIG. H-497

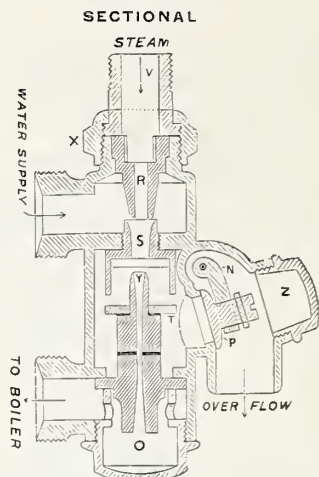


FIG. H-498

## CAPACITY PER HOUR.

Numbers.	Pipe Connection.	1 to 3 ft. Lift, 60 to 85 lbs. Steam Pressure.		Horse Power.	Each.
		Min. Gallons.	Max. Gallons.		
O .....	$\frac{1}{4}$ inch	40	60	3 to 6	\$15.00
OO .....	$\frac{3}{8}$ inch	55	80	4 to 8	16.00
A .....	$\frac{1}{2}$ inch	70	135	8 to 16	18.00
AA .....	$\frac{1}{2}$ inch	100	180	12 to 22	20.00
B .....	$\frac{3}{4}$ inch	140	260	17 to 32	25.00
BB .....	$\frac{3}{4}$ inch	170	355	20 to 45	30.00
C .....	1 inch	300	475	40 to 65	40.00
CC .....	1 inch	350	600	45 to 80	45.00
D .....	$1\frac{1}{4}$ inch	425	800	50 to 100	55.00
DD .....	$1\frac{1}{4}$ inch	525	1,000	75 to 135	60.00
E .....	$1\frac{1}{2}$ inch	800	1,400	100 to 180	75.00
EE .....	$1\frac{1}{2}$ inch	900	1,900	115 to 255	90.00
F .....	2 inch	1,300	2,400	160 to 320	110.00
FF .....	2 inch	1,600	3,000	200 to 400	125.00
G .....	$2\frac{1}{2}$ inch	2,000	3,600	300 to 500	150.00
GG .....	$2\frac{1}{2}$ inch	2,500	4,200	375 to 600	200.00

When Injectors are ordered by size of the Pipe Connections only, the size having the larger capacity will always be sent.



## METROPOLITAN AUTOMATIC INJECTOR

FOR MARINE, STATIONARY AND PORTABLE BOILERS AND TRACTION ENGINES

It is automatic at all working steam pressures. No amount of jarring can stop its working. It will lift the water at comparatively high temperature and cannot blow back in the suction pipe. It can be used as a lifter or non-lifter without any change of tubes. A monkey wrench and screw driver only are required to remove the tubes and regrind the valves.



FIG. H-499

No.	Each.	Pipe.	Gals. per Hr.	Horse Power.	No.	Each.	Pipe.	Gals. per Hr.	Horse Power.
2	\$15.00	$\frac{3}{8}$	60	4 to 6	8	\$45.00	1	600	65 to 80
3	16.00	$\frac{1}{2}$	80	6 to 8	9	55.00	$1\frac{1}{4}$	800	80 to 100
$3\frac{1}{2}$	18.00	$\frac{1}{2}$	120	8 to 15	10	60.00	$1\frac{1}{4}$	1000	100 to 130
4	20.00	$\frac{1}{2}$	165	15 to 20	11	75.00	$1\frac{1}{2}$	1300	130 to 170
5	25.00	$\frac{3}{4}$	250	20 to 30	12	90.00	$1\frac{1}{2}$	1750	170 to 230
6	30.00	$\frac{3}{4}$	350	30 to 45	13	110.00	2	2300	230 to 300
7	40.00	1	500	45 to 65	14	125.00	2	2850	300 to 375

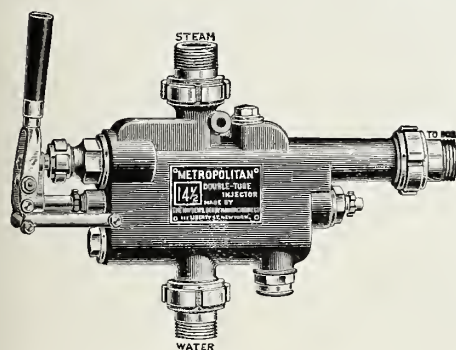


FIG. H-500

## Metropolitan Double Tube High Pressure Injector

Will take water at 120° Fahrenheit with steam pressure of 180 pounds, and hotter water at correspondingly low pressures. It can be used as a lifting or non-lifting injector, or for low steam pressures equally well.

Number.	Each.	Pipe.	Gals. per Hr.	Horse Power.	Drip Funnel.
$2\frac{1}{2}$	\$18.00	$\frac{1}{2}$	120	8 to 15	\$1.00
$4\frac{1}{2}$	20.00	$\frac{1}{2}$	165	15 to 20	1.00
$5\frac{1}{2}$	25.00	$\frac{3}{4}$	250	20 to 30	1.25
$6\frac{1}{2}$	30.00	$\frac{3}{4}$	350	30 to 45	1.25
$7\frac{1}{2}$	40.00	1	500	45 to 65	1.50
$8\frac{1}{2}$	45.00	1	600	65 to 80	1.50
$9\frac{1}{2}$	55.00	$1\frac{1}{4}$	800	80 to 100	2.00
$10\frac{1}{2}$	60.00	$1\frac{1}{4}$	1000	100 to 130	2.00
$11\frac{1}{2}$	75.00	$1\frac{1}{2}$	1300	130 to 170	2.50
$12\frac{1}{2}$	90.00	$1\frac{1}{2}$	1750	170 to 230	2.50
$13\frac{1}{2}$	110.00	2	2300	230 to 300	3.00
$14\frac{1}{2}$	125.00	2	2850	300 to 375	3.00
$15\frac{1}{2}$	150.00	$2\frac{1}{2}$	3500	375 to 500	3.50



## "H-D" EJECTOR OR JET PUMP

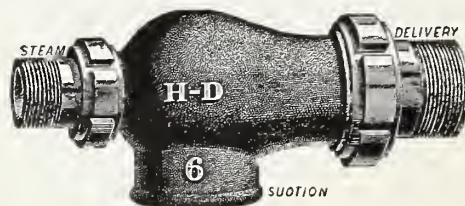


FIG. H-501

Size.	Each.	PIPE CONNECTIONS.		Capacity per Hour.	Strainers, Each.
		Steam.	Suction and Delivery.		
No. 1 Brass.	\$8.00	$\frac{3}{8}$	$\frac{1}{2}$	250	.90
No. 2 Brass.	10.00	$\frac{1}{2}$	$\frac{3}{4}$	500	1.00
No. 3 Brass.	15.00	$\frac{3}{4}$	1	960	1.25
No. 4 Brass.	20.00	1	$1\frac{1}{4}$	1,300	1.50
No. 5 Brass.	25.00	$1\frac{1}{4}$	$1\frac{1}{2}$	2,000	2.00
No. 6 Iron.	35.00	$1\frac{1}{4}$	2	4,000	2.75
No. 7 Iron.	45.00	$1\frac{1}{2}$	$2\frac{1}{2}$	8,000	3.75
No. 8 Iron.	55.00	2	3	11,000	5.00
No. 9 Iron.	70.00	$2\frac{1}{2}$	4	15,000	7.00
No. 10 Iron.	175.00	4	6	45,000	----

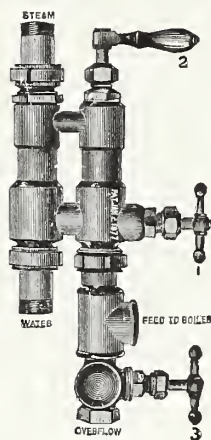


FIG. H-502

## HANCOCK INSPIRATOR

### For Feeding Stationary and Portable Boilers

Full directions for connecting and operating accompany each Inspirator. For a lift of 5 ft., 15 lbs. of steam-pressure is required; for a lift of 10 to 15 ft., 20 lbs. pressure is required; for a lift of 15 to 20 ft., 30 lbs. steam-pressure is required; for a lift of 20 to 25 ft., 35 to 40 lbs. steam-pressure is required. No adjustment is necessary for varying steam-pressure; but the quantity of water delivered can be varied by increasing or reducing the steam or water supply.

No. of Insp.	Suc. and Feed.	Steam	Gallons per hour, 60 lbs. pressure.	Each.	No. of Insp.	Suc. and Feed.	Steam.	Gallons per hour, 60 lbs. pressure.	Each.
$7\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{8}$	60	\$16.00	25	$1\frac{1}{4}$	1	900	\$60.00
$8\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	90	18.00	30	$1\frac{1}{2}$	$1\frac{1}{4}$	1,260	75.00
10	$\frac{1}{2}$	$\frac{3}{8}$	120	20.00	35	$1\frac{1}{2}$	$1\frac{1}{4}$	1,740	90.00
$12\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	220	25.00	40	2	$1\frac{1}{2}$	2,230	110.00
15	$\frac{3}{4}$	$\frac{1}{2}$	300	30.00	45	2	$1\frac{1}{2}$	2,820	125.00
$17\frac{1}{2}$	1	$\frac{3}{4}$	420	40.00	50	$2\frac{1}{2}$	2	3,480	150.00
20	1	$\frac{3}{4}$	540	45.00	55	$2\frac{1}{2}$	2	3,650	175.00
$22\frac{1}{2}$	$1\frac{1}{4}$	1	720	55.00					

## JUDSON GOVERNORS

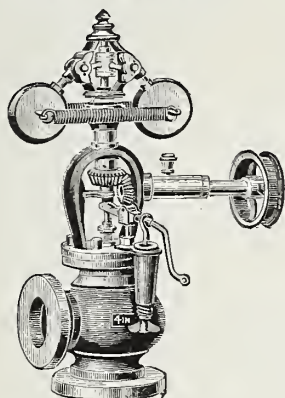
CLASS B, STANDARD  
MEDIUM SPEED

FIG. H-503

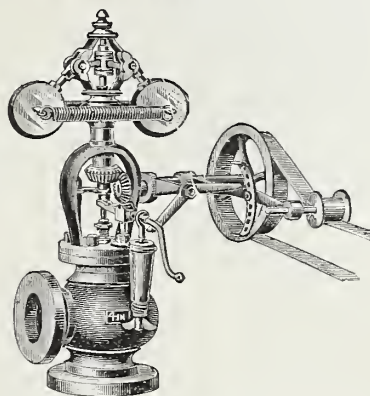
CLASS A, SPRING  
HIGH SPEED

FIG. H-504

In ordering Governors state which class is wanted, whether Standard or Spring, Plain or Finished, and with or without Improved Angle or Globe Stop Valve.

SIZE OF GOVERNOR DIAM. OF OPENING	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{4}$
Class B, Plain	\$14.00	16.00	18.00	21.00	25.00	30.00	35.00
Class B, Finished	16.00	18.00	20.00	24.00	29.00	34.00	40.00
Class A, Plain			21.00	24.50	29.50	36.00	42.00
Class A, Finished			23.00	27.50	33.50	40.00	47.00
Angle or Globe Stop Valve				6.00	8.00	9.75	11.50
SIZE OF GOVERNOR DIAM. OF OPENING	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5
Class B, Plain	\$40.00	45.00	50.00	60.00	71.00	83.00	94.00
Class B, Finished	45.00	51.00	58.00	69.00	81.00	94.00	106.00
Class A, Plain	48.00	53.00	59.00	71.00	83.00	96.00	109.00
Class A, Finished	53.00	59.00	67.00	80.00	93.00	107.00	121.00
Angle or Globe Stop Valve	12.50	15.50	18.00	22.00	25.00	32.00	38.00
SIZE OF GOVERNOR DIAM. OF OPENING	$5\frac{1}{2}$	6	7	8	9	10	
Class B, Plain	\$108.00	122.00	150.00	185.00	215.00	240.00	
Class B, Finished	121.00	136.00	166.00	202.00	235.00	260.00	
Class A, Plain	124.00	140.00	170.00	210.00	241.00	270.00	
Class A, Finished	137.00	154.00	186.00	227.00	261.00	290.00	
Angle or Globe Stop Valve	44.00	50.00	80.00	103.00	140.00	180.00	

All Governors are complete with Speeder, Turned Flanged Pulley and Lever.

In ordering, if we are informed of Speed of Engine and Diameter of Pulley on Engine Shaft from which Governor is driven, will put proper size of Pulley on Governor, otherwise Regular Pulley will be furnished with each Governor. When Stop Valves are ordered, Angle will be sent unless Globe is specified.

INTERCHANGEABLE.—Governors are made in duplicate so that new parts can be readily substituted for those broken or worn.

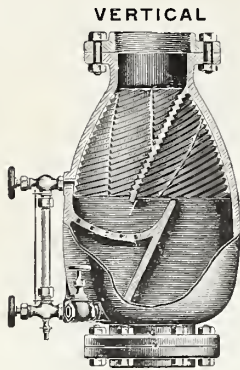


FIG. H-505

Equal results with upward or downward flow of steam.

AUSTIN  
SEPARATORS

For Live and Exhaust  
Steam

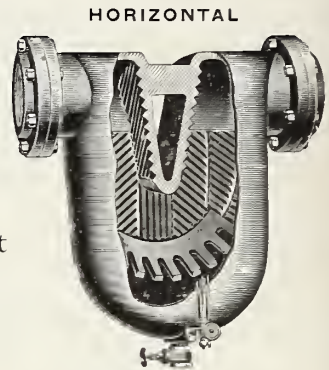


FIG. H-506

Can be connected either right or left hand.

Size, in.	1½	2	2½	3	3½	4	4½	5	6	7	8	10	12
Each	\$30.00	40.00	45.00	50.00	60.00	70.00	75.00	80.00	110.00	125.00	160.00	220.00	250.00

Prices include Connecting Flanges, Water Gauge, Nipple and Straight-way Valve.

SIZES AND DIMENSIONS  
IN INCHES

Size	1½	2	2½	3	3½	4	4½
A	Se'd Ends	7	7½	8½	9	9¼	
B	11	11	13	15¼	16¾	18	20

Size	5	6	7	8	10	12
A	10	11	12½	13½	16	19
B	22¼	25¼	28½	31½	37	40¼

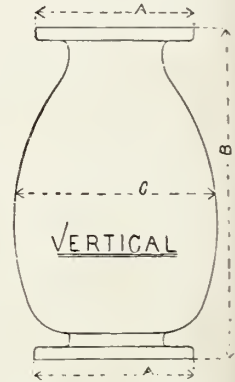


FIG. H-507

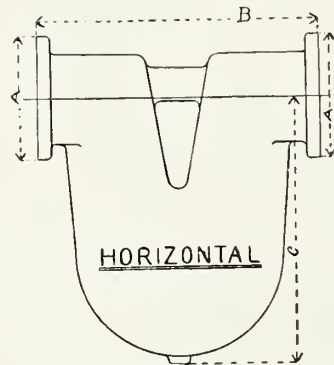


FIG. H-508

SIZES AND DIMENSIONS  
IN INCHES

Size	1½	2	2½	3	3½	4
A	Se'd Ends	Se'd Ends	7	7½	8½	9
B	9	9	13¼	15¼	16	18¼

Size	4½	5	6	7	8	10	12
A	9¼	10	11	12½	13½	16	19
B	19¼	20¾	24¼	27¼	30¼	31	36

## EXHAUST HEADS

## "CYCLONE"

Prevents spraying of roofs and walls  
by oil and water from Exhaust Pipes.

Makes the exhaust noiseless.



FIG. H-509

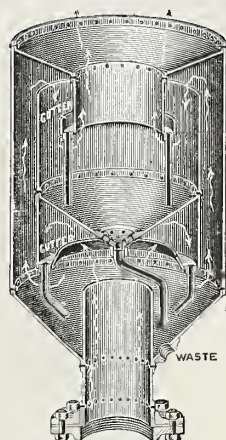


FIG. H-510

Size of Exhaust Pipe.	Size of Drip Pipe.	Each.	Size of Exhaust Pipe.	Size of Drip Pipe.	Each.
1 and 1½ inch-----	½ inch.	\$20.00	10 inch-----	1½ inch.	\$125.00
2 and 2½ inch-----	¾ inch.	25.00	11 and 12 inch-----	2 inch.	150.00
3 and 3½ inch-----	1 inch.	30.00	13 inch-----	2 inch.	175.00
4 and 4½ inch-----	1 inch.	40.00	14 inch-----	2½ inch.	200.00
5 inch-----	1¼ inch.	50.00	15 inch-----	2½ inch.	235.00
6 inch-----	1¼ inch.	60.00	16 inch-----	2½ inch.	250.00
7 inch-----	1¼ inch.	75.00	17 inch-----	3 inch.	270.00
8 inch-----	1½ inch.	90.00	18 inch-----	3 inch.	300.00
9 inch-----	1½ inch.	105.00	20 inch-----	3 inch.	360.00

Small sizes up to 2½ inch are fitted with Standard Threaded Nipples.

Sizes 3 inch to 12 inch are fitted with Standard Flange Unions.

In large sizes the Flange on Exhaust Head is made to conform in diameter and drilling to Flange on the Exhaust Pipe.

## "LYMAN"

5 INCH AND SMALLER



FIG. H-511

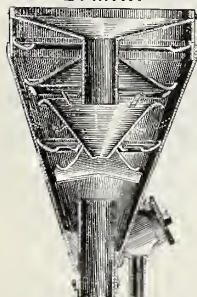


FIG. H-512

6 INCH AND LARGER



FIG. H-513

All Heads have the same inside construction.

Pipe Size, inches-----	2 or 2½	3 or 3½	4 or 4½	5	6	7	8	9	10	11 or 12	14
Each-----	\$25.00	30.00	40.00	50.00	60.00	75.00	90.00	105.00	125.00	150.00	200.00
Approx. Wt., lbs-----	25	30	45	75	100	125	165	220	240	320	470
Ext. Height, inches-----	29	33	39	44	48	52	58	63	68	74	86
Ext. Width, inches-----	17	20	23	26	28	30	34	36	39	43	50
Comp. Flanges, ex-----				1.75	2.00	2.25	2.50	2.75	3.00	3.50	4.00



## PATTERSON WATER TUBE BERRYMAN HEATER, PURIFIER AND OIL SEPARATOR

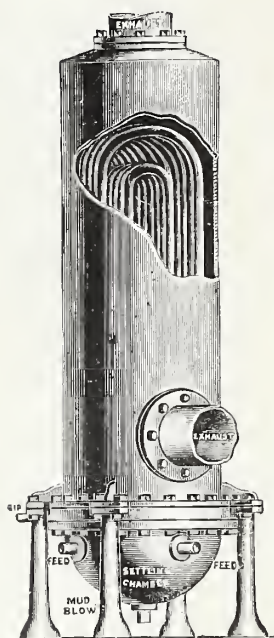


FIG. H-514

H. P.	Dimen- sions, in.	Exh't, in.	Feed, in.	Each.	H. P.	Dimen- sions, in.	Exh't, in.	Feed, in.	Each.
40	15x42	3	1	\$100.00	250	26x80	8	2	\$450.00
50	15x50	4	1	120.00	300	26x90	10	2	510.00
60	15x56	4	1 1/4	145.00	350	26x100	10	2 1/2	575.00
80	15x68	5	1 1/4	180.00	400	28x102	12	2 1/2	650.00
100	18x68	6	1 1/2	225.00	500	28x114	12	2 1/2	825.00
125	18x74	6	1 1/2	270.00	600	36x98	12	3	1050.00
150	23x76	7	1 1/2	325.00	800	36x114	14	3	1300.00
200	23x88	8	2	375.00	1000	36x130	14	4	1600.00

NOTE.—Diameters are across tube plates. Heights include legs.

This Heater consists of a cast iron shell, a settling chamber and a nest of seamless brass tubes, both ends of each being expanded into an extra thick cast iron tube plate. The water passes through an entire row or bank of tubes at once, thus circulating through the exhaust steam as often as there are rows of tubes in the heater, depending upon its size, and obtaining full benefit from its heat. Impurities must settle to the bottom and may be blown off. This form also gives great strength to what is often the weakest part. By removing the bolts, the settling chamber, tube plate and tubes may be lowered and the interior reached for any purpose, without disturbing the steam pipe or the shell upon its supports.

These Heaters are tested to 200 lbs. hydraulic pressure.

## NASON STEAM TRAPS

"NASON"

FOR STEAM PRESSURES 70 LBS. AND LESS

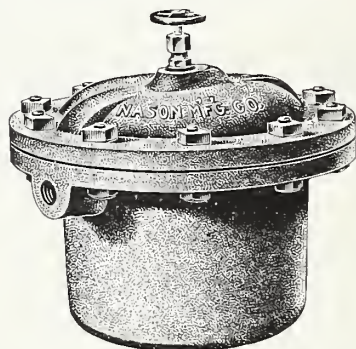


FIG. H-515

"SIDELUG"

FOR STEAM PRESSURES 71 TO 150 LBS.

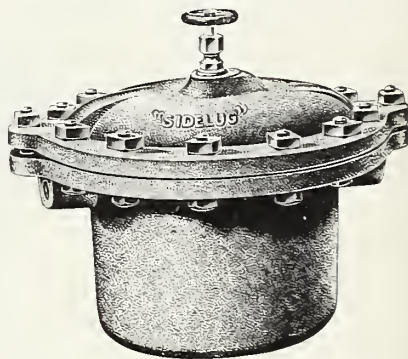


FIG. H-516

Number of Steam Trap.....	1	2	3	4	5
Size of Pipe Connections.....	1 1/2	2	3	4	5
Maximum discharge, lbs. water per minute.....	350	900	1400	2000	3500
Greatest number of sq. ft. of surface to which it should be applied.....	1050	2700	4200	6000	10500
Greatest number of lineal feet of 1 in. pipe surface to which it should be applied.....	\$16.00	20.00	27.50	42.50	70.00
Price, Nason Fig. H-515.....	16.85	21.30	29.25	45.50	74.75
Price, Sidelug Fig. H-516.....					



## ALBANY STEAM TRAPS

RETURN TRAP

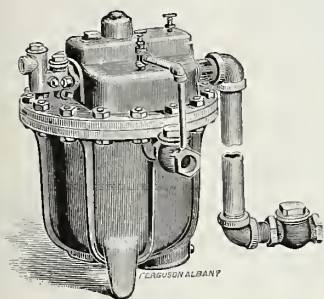


FIG. H-517

NON-RETURN

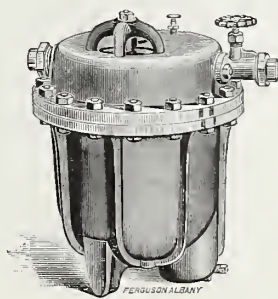


FIG. H-518

FIG. H-517—RETURN TRAPS

Size Trap.	Capacity in Lineal Feet of 1 inch Pipe.	Inlet.	Outlet.	Gallons Capacity per Minute.	Each.
No. A1.	15,000 to 30,000	1½ in.	2½ in.	10 to 15	\$200.00
No. 1.	8,000 to 12,000	1½ in.	2 in.	4 to 8	150.00
No. 2.	4,000 to 8,000	1 in.	1½ in.	3 to 6	100.00
No. 0.	500 to 1,000	½ in.	1 in.	½ to 1	50.00

FIG. H-518—NON-RETURN TRAPS

NUMBER	1	2	3
Inlet and Discharge	½ in.	¾ in.	1 in.
For Lineal Feet of 1 in. Pipe } depending on the pressure }	1,000 to 2,000	2,000 to 5,000	5,000 to 8,000
Shipping Weights	50 lbs.	80 lbs.	125 lbs.
Each	\$10.00	\$12.00	\$17.00
Renewals, per set, Valve and Seat	.50	.75	1.00
NUMBER	4	5	6
Inlet and Discharge	1¼ in.	1½ in.	2 in.
For Lineal Feet of 1 in. Pipe } depending on the pressure }	8,000 to 10,000	10,000 to 15,000	15,000 to 30,000
Shipping Weights	200 lbs.	350 lbs.	400 lbs.
Each	\$26.00	\$42.00	\$75.00
Renewals, per set, Valve and Seat	1.25	1.50	2.50

# "RELIABLE" STEAM TRAP

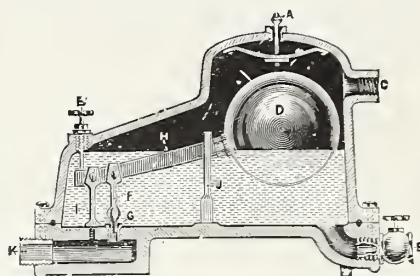


FIG. H-519

For small drainage that can be sold at a low price so as to be generally used.

No. 0,	Inlet and Outlet $\frac{3}{4}$ inch, each	\$12.00
	Drains 1,000 feet of 1-inch pipe.	
No. 00,	Inlet and Outlet $\frac{1}{2}$ inch, each	8.00
	Drains 450 feet of 1-inch pipe.	
No. 00	has no wheel valve at B.	
	Both sizes work at from 1 pound to 100 pounds steam pressure only, and no higher.	

# McDANIEL EXTRA HEAVY STEAM TRAP

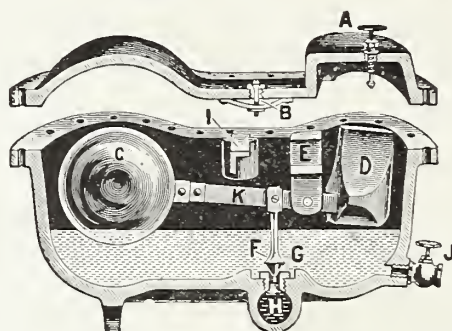


FIG. H-520

McDaniel Steam Traps are made extra heavy, from special patterns. for steam pressure from 100 to 150 pounds. They are all tested to a pressure of 250 pounds to the square inch.

No. of Steam Trap.	Size of Inlet and Outlet Standard Pipe Size.	Drainage Lineal feet of 1-inch Pipe.	Drainage sq. feet of Heating Surface Sq. Ft.	Each.
0	$\frac{3}{4}$ inch	1,000 feet	333	\$24.00
1	1 inch	3,500 feet	1,166	40.00
2	$1\frac{1}{4}$ inch	7,000 feet	2,333	55.00
3	$1\frac{1}{2}$ inch	14,000 feet	4,666	80.00
4	2 inch	20,000 feet	6,666	90.00
5	$2\frac{1}{2}$ inch	25,000 feet	8,333	100.00

## THE ANDERSON IMPROVED STEAM TRAP

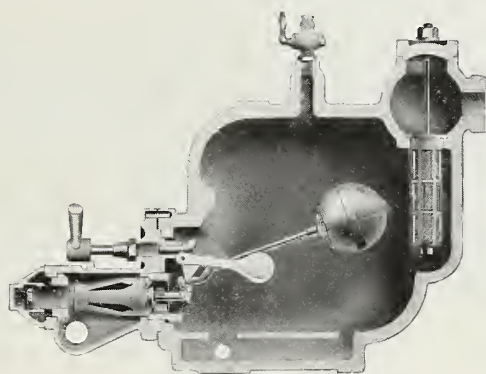


FIG. H-521

The Anderson Trap will elevate the water or condensation 2 feet for every pound of pressure, hence if there were 20 pounds pressure on the Trap, it would theoretically elevate the water 40 feet; however, as something must be allowed for friction in the Pipes in estimating we usually deduct 5 pounds pressure, hence where 20 pounds pressure shows at the Trap, we would estimate that the Water could be elevated without difficulty 30 feet; of course, where the traps are used on a gravity system on exhaust steam lines, where there is practically no pressure, it is then impracticable to elevate the water.

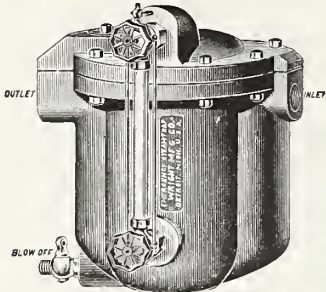
## SIZES AND CAPACITY

Size No. of Trap .....	1	2	3	4	5	6	7
Size of connection .....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Maximum discharge of condensation, per hour in lbs .....	750	1,200	2,000	2,800	4,000	6,000	12,000
Greatest number of square feet of sur- face that should be applied .....	500	800	1,300	2,350	3,500	5,000	10,000
Greatest number of lineal feet of 1 inch pipe surface that should be applied	1,500	2,500	4,000	7,000	10,000	15,000	30,000
Each .....	\$20.50	22.50	28.00	35.00	50.00	70.00	120.00

NOTE.—When pressure below 30 pounds is to be used, it should be so stated in the order, so as to have the advantage of the large valve outlet of a low pressure trap.

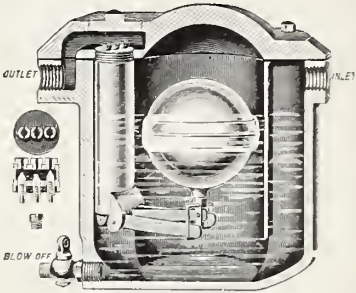
“EMERGENCY” STEAM TRAP

ADAPTED FOR VARYING STEAM PRESSURES UP TO 250 LBS.



Exterior.  
FIG. H-522

A  
WASTELESS  
TRAP  
OF  
WONDERFUL  
CAPACITY



Interior.  
FIG. H-523

DISPOSES OF UNUSUAL INFLOWS OF CONDENSATION INSTANTLY WITHOUT WASTE OF STEAM

As its name implies, this Trap is especially adapted for operation in emergencies, for when the inflow is excessive and an ordinary steam trap would be flooded, the Wright Trap, by means of its THREE independent valves, will take care of the surplus water easily. A moment's study of the cut will make its operation entirely plain.

The water enters the Trap, lifting the float and opening the first or center valve slightly if but little water is coming in, but widely in event of a sudden inflow. This one valve alone is equal to the task of taking care of the flow under ordinary conditions, but if the water comes into the Trap faster than one valve can discharge it, the water rises in the trap, carrying the float with it and opening the second valve sufficiently to discharge the surplus water, or wide open, if necessary. The third valve is opened in like manner, providing for the FULL CAPACITY OF INLET PIPE, but it rarely happens that the volume of condensation coming into the Trap is great enough to tax the combined capacity of all three valves. Operating in the manner described, this is practically "Three Steam Traps at the price of one."

THE THREE VALVES are at highest point of Trap, removed from liability of stoppage by dirt and scale. Valve seats are easily reached for renewing by unscrewing iron plug above tube, when they may be readily taken out with an ordinary screwdriver. All working parts are attached to cover and are removable without disturbing piping. A deep water seal, constantly maintained over inlet and outlet, prevents any escape of steam. Float is of copper, round, seamless and reinforced at most essential point. Trap is furnished complete with blow-off valve for disposing of sediment, etc., and water gauge for noting operation.

Size of Trap .....	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
Size of Inlet and Outlet .....	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
Distance through Inlet and Outlet .....	11 1/4"	12"	12 3/4"	13 3/4"	15 1/4"	16 1/2"	18"	19 1/2"
Maximum Discharge, Gallons, per Hour .....	75	110	180	300	480	720	1200	1680
Intended for Square Feet of Radiating Surface .....	1330	2000	3330	6660	9000	13300	25750	31000
Intended for Lineal Feet of 1-inch Pipe .....	4000	6000	10000	20000	27000	40000	77500	93000
Each .....	\$20.50	22.50	28.00	35.00	50.00	70.00	100.00	130.00

NOTE.—Every trap carefully tested before leaving factory. Results guaranteed.



## STEAM AND WATER BOILERS

## IDEAL SECTIONAL STEAM AND WATER

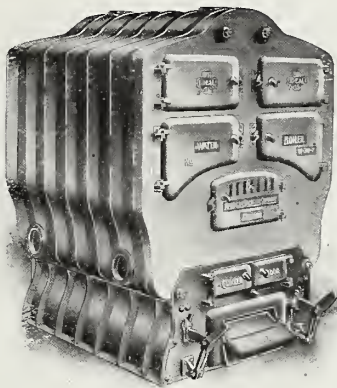


FIG. H-524

The headings denote the front measurement of the grate.

48 INCH STEAM			48 INCH WATER			36 INCH STEAM			36 INCH WATER		
No.	Rating Sq. Ft.	Each.	No.	Rating Sq. Ft.	Each.	No.	Rating Sq. Ft.	Each.	No.	Rating Sq. Ft.	Each.
S-48-6	4000	1144.00	W-48-6	6600	1124.00	065	1800	\$640.00	365	2975	\$630.00
S-48-7	4800	1304.00	W-48-7	7925	1284.00	066	2250	770.00	366	3700	750.00
S-48-8	5600	1464.00	W-48-8	9250	1444.00	067	2700	882.00	367	4450	862.00
S-48-9	6400	1624.00	W-48-9	10575	1604.00	068	3150	974.00	368	5200	954.00
S-48-10	7200	1784.00	W-48-10	11875	1764.00	069	3600	1064.00	369	5950	1044.00

30 INCH STEAM			30 INCH WATER			24 INCH STEAM			24 INCH WATER		
No.	Rating Sq. Ft.	Each.	No.	Rating Sq. Ft.	Each.	No.	Rating Sq. Ft.	Each.	No.	Rating Sq. Ft.	Each.
S-30-5	1275	\$482.50	W-30-5	2100	\$472.50	045	900	\$370.00	245	1500	\$360.00
S-30-6	1625	587.50	W-30-6	2675	577.50	046	1100	430.00	246	1825	420.00
S-30-7	1975	692.50	W-30-7	3250	682.50	047	1300	490.00	247	2150	480.00
S-30-8	2325	790.50	W-30-8	3825	780.50	048	1500	550.00	248	2475	540.00

21 INCH STEAM			21 INCH WATER			18 INCH STEAM			18 INCH WATER		
No.	Rating Sq. Ft.	Each.	No.	Rating Sq. Ft.	Each.	No.	Rating Sq. Ft.	Each.	No.	Rating Sq. Ft.	Each.
S-21-5	800	\$340.00	W-21-5	1325	\$330.00	085	500	\$250.00	185	825	\$240.00
S-21-6	1000	400.00	W-21-6	1650	390.00	086	625	287.50	186	1025	277.50
S-21-7	1200	460.00	W-21-7	2000	450.00	087	750	325.00	187	1250	315.00

15 INCH STEAM			15 INCH WATER		
No.	Rating Sq. Ft.	Each.	No.	Rating Sq. Ft.	Each.
S-15-4	300	\$190.00	W-15-4	500	\$180.00
S-15-5	425	227.50	W-15-5	700	217.50
S-15-6	550	265.00	W-15-6	900	255.00
S-15-7	675	302.50	W-15-7	1100	292.50
S-15-8	800	340.00	W-15-8	1300	330.00

For each supply outlet on top of boiler there is a corresponding return inlet on either side of boiler. Extra tapings can be provided if desired.

Do not bush flow pipe outlets—connect all of them full size to the main.

Additional descriptive matter will be furnished upon application.



## STEAM AND WATER BOILERS

## IDEAL ARCO STEAM



FIG. H-525

## IDEAL PREMIER WATER



FIG. H-526

## IDEAL ARCO STEAM BOILERS

## SOFT COAL

## HARD COAL

No.	Rating, Sq. Ft.	Each.	No.	Rating, Sq. Ft.	Each.
1-19-S	275	\$140.50	2-19-S	350	\$167.00
1-22-S	400	193.00	3-19-S	400	193.00
1-25-S	500	219.50	2-22-S	525	226.00
1-28-S	800	331.00	3-22-S	575	240.00
1-31-S	1000	389.50	2-25-S	625	277.50
1-34-S	1250	462.50	3-25-S	700	300.00

The ratings provide that all piping (mains and risers, flow and return), in addition to the direct radiation to be used, shall be figured as radiating surface in estimating the size of Boiler required.

2-28-S	900	360.50
3-28-S	1000	389.50
2-31-S	1275	470.00
3-31-S	1400	500.00
2-34-S	1500	530.00
3-34-S	1650	575.00

## IDEAL PREMIER STEAM BOILERS

## SOFT COAL

## HARD COAL

No.	Rating, Sq. Ft.	Each.	No.	Rating, Sq. Ft.	Each.
D-015	200	\$123.00	C-015	225	\$123.00
D-018	250	149.50	C-018	300	149.50
D-021	400	193.00	C-019	350	167.00
D-022	450	206.50	C-020	400	193.00
D-025	500	219.50	C-021	450	206.50
D-026	600	246.00	C-022	500	219.50
D-028	800	331.00	C-024	550	232.50
D-029	900	360.50	C-025	600	246.00
D-032	1050	404.50	C-026	650	287.50
D-033	1200	448.00	C-027	850	346.00

When soft coal is to be used for fuel, a size larger Boiler should be selected than would be required for hard coal.

C-028	925	367.50
C-029	1000	389.50
C-031	1100	419.00
C-032	1200	448.00
C-033	1300	477.00

## IDEAL ARCO WATER BOILERS

## SOFT COAL

## HARD COAL

No.	Rating, Sq. Ft.	Each.	No.	Rating, Sq. Ft.	Each.
1-19-W	450	\$131.50	2-19-W	575	\$158.00
1-22-W	650	184.00	3-19-W	650	184.50
1-25-W	825	210.50	2-22-W	875	217.50
1-28-W	1325	321.00	3-22-W	950	230.00
1-31-W	1650	381.00	2-25-W	1025	270.00
1-34-W	2075	450.00	3-25-W	1150	290.00

In rating Steam Boilers it is understood that an average pressure of 21 lbs. will be maintained at the Boiler. In rating Water Boilers, it is understood that the mean temperature of the water at the Boiler will be 180 degrees Fahrenheit.

2-28-W	1500	350.50
3-28-W	1650	380.00
2-31-W	2100	457.50
3-31-W	2325	495.00
2-34-W	2475	525.00
3-34-W	2725	565.00

## IDEAL PREMIER WATER BOILERS

## SOFT COAL

## HARD COAL

No.	Rating, Sq. Ft.	Each.	No.	Rating, Sq. Ft.	Each.
D-152	325	\$105.50	C-152	375	\$105.50
D-182	400	140.50	C-182	500	140.50
D-212	650	184.00	C-183	575	158.50
D-213	750	197.00	C-211	650	184.00
D-242	825	210.50	C-212	750	197.00
D-243	1000	237.00	C-213	825	210.50
D-282	1325	321.00	C-241	900	224.00
D-283	1500	350.50	C-242	1000	237.00
D-322	1725	394.50	C-243	1075	277.50
D-323	2000	438.50	C-281	1400	336.00

It is recommended that our Premier Arco or Sectional Boilers be selected as more adaptable for use with soft coal than other types.

C-282	1525	358.00
C-283	1650	380.00
C-321	1825	409.00
C-322	2000	438.50
C-323	2150	467.50

## PORTABLE BOILERS

## IDEAL PORTABLE BOILER

STEAM



FIG. H-527

## IDEAL PORTABLE STEAM BOILERS

No.	Rating, Sq. Ft.	Each.
103	300	\$149.50
104	350	167.00
203	400	193.00
204	450	206.50
205	500	219.50
303	550	232.50
304	600	246.00
305	650	287.50
403	850	346.00
404	1000	389.50
405	1100	419.00
504	1250	462.50
505	1450	506.50
506	1600	565.00

For soft coal use a one size larger boiler than for hard coal.

## IDEAL PORTABLE WATER BOILERS

No.	Rating, Sq. Ft.	Each.
13	350	\$101.00
14	400	114.00
15	450	131.50
24	550	153.50
25	625	171.00
26	675	187.50
34	775	204.00
35	875	217.50
36	975	233.50
37	1050	274.00
44	1200	299.50
45	1400	336.00
46	1600	372.50
47	1700	389.50
55	1775	402.00
56	2000	438.50
57	2250	486.00
58	2400	511.50

When soft coal is to be used for fuel, it is advisable to select a Sectional Premier or Arco Boiler.

All boilers should have a substantial covering of asbestos.

## PORTABLE WATER HEATERS

### IDEAL LAUNDRY WATER HEATER NO. 2

### IDEAL PREMIER JUNIOR WATER HEATER



FIG. H-528

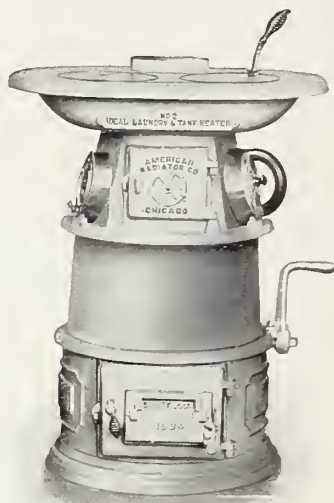


FIG. H-529

### FIG. H-528—IDEAL PREMIER JUNIOR WATER HEATERS

Nos. 0 and 101 are not provided with butterfly doors. No. 101 can be so equipped if specified in ordering. None of the above Heaters has intermediate section.

\*Diameter of base at floor line. No fire tools supplied with these Heaters.

When soft coal is to be used for fuel, a size larger Heater should be selected than would be required for hard coal.

The amount of radiation a water heater will supply at manufacturer's established basis of rating can be estimated by dividing the tank capacity in gallons by 1.30, since it is generally accepted that a foot of radiation is equal to a tank capacity of 30 per cent. more expressed in gallons, or 1.30 gallons.

No.	Height, Inches.	*Diameter, Inches.	Diameter Grate, Inches.	Outlets, Inches.	Smoke Collar, Inches.	Capacity, Gallons.	Price Complete.
0	31	18	10	1-1½	5	100	\$38.00
101	33½	18	10¼	1-1½	5	200	53.00
121	41½	24	12	3-1½	6	275	66.50
122	46¾	24	12	3-1½	6	350	81.00
151	47½	27	15	3-2	6	450	100.00
152	55¼	27	15	3-2	7	600	129.00
181	50¼	28	18	3-2	7	750	164.50

### FIG. H-529—IDEAL LAUNDRY WATER HEATERS

No.	Height, Inches.	*Widest Diameter, Inches.	Diameter Grate, Inches.	Inlet and Outlet, Inches.	Size Smoke- Pipe, Inches.	Number of Flat Irons.	Tank Capacity, Gallons.	Price Complete.
1A	28	25	10	1	5	15	50	\$30.00
2	33¾	27½	12	1¼	6	20	120	41.00
3	34½	27½	15	1½	6	20	200	53.00

\*Measurements given approximate the amount of space occupied by the Heater. No fire tools supplied with these Heaters.

When soft coal is to be used for fuel, a size larger Heater should be selected than would be required for hard coal.

## RADIATORS

## Rococo Three-Column Ornamental

WITH RIGHT AND LEFT-HAND THREADED NIPPLE CONSTRUCTION

## For Steam and Water



FIG. H-530

Each section is  $9\frac{1}{4}$  inches wide. Width of legs, 10 inches. All Rococo Radiators made at Detroit Plant are connected with extra heavy right and left hand threaded nipples.

Rococo Ornamental Radiators are made at Detroit Plant in special shapes as follows:

Carpet feet, for Steam and Water ..... on application  
Circular, for Steam and Water ..... on application  
Corner, for Steam and Water ..... on application  
Curved, for Steam and Water ..... on application  
Dining room, 44-inch Height only, for Steam and Water ..... on application

Direct-Indirect, 44, 38, 32 and 26-inch Heights, for Steam only ..... on application

Legs, Detachable High, for Steam and Water ..... on application  
Marble-Tops, Lugs for, Steam and Water ..... on application

These Radiators are tapped 2 inches and bushed as per list on page 177. Distance from floor to center of either supply or return tapping is  $4\frac{1}{2}$  inches for water; 4 inches for single-pipe Steam;  $4\frac{1}{2}$  inches supply, 4 inches return, for Double-pipe Steam.

Top of each Water leg section has 2-inch plug, which can be taken out to make top connection when desired. In Detroit Plant, Rococo Water Radiators distance between centers of upper and lower tappings is—in the 44-inch Height,  $35\frac{1}{4}$  inches; 38-inch Height, 31 inches; 32-inch Height,  $23\frac{3}{4}$  inches; 26-inch Height, 18 inches; 22-inch Height,  $14\frac{1}{2}$  inches; 18-inch Height,  $10\frac{1}{4}$  inches.

\*In estimating length of Radiator, allow  $\frac{1}{2}$  inch for each bushing.

## SPECIAL TAPPINGS

When so ordered, can tap  $1\frac{1}{2}$  inch or smaller at extreme top of first or second section of stack, or at bottom of second section. (See illustration "A" page 177).

When so ordered, can tap for supply and return at bottom of same end, for Steam. (See illustration "C," page 177). Both tappings are  $1\frac{1}{2}$  inches or smaller, according to list on page 177. Distance between centers of tappings is  $4\frac{1}{4}$  inches (except where Adjustable High Legs are used); distance from floor to center of either tapping is 4 inches.

## HEATING SURFACE—SQUARE FEET

No. of Sections.	*Length $2\frac{1}{2}$ in. per Sec.	44-inch Height, 6 sq. ft. per Sec.	38-inch Height, 5 sq. ft. per Sec.	32-inch Height, $4\frac{1}{2}$ sq. ft. per Sec.	26-inch Height, $3\frac{3}{4}$ sq. ft. per Sec.	22-inch Height, 3 sq. ft. per Sec.	18-inch Height, $2\frac{1}{4}$ sq. ft. per Sec.
2	5	12	10	9	$7\frac{1}{2}$	6	$4\frac{1}{2}$
3	$7\frac{1}{2}$	18	15	$13\frac{1}{2}$	$11\frac{1}{4}$	9	$6\frac{3}{4}$
4	10	24	20	18	15	12	9
5	$12\frac{1}{2}$	30	25	$22\frac{1}{2}$	$18\frac{3}{4}$	15	$11\frac{1}{4}$
6	15	36	30	27	$22\frac{1}{2}$	18	$13\frac{1}{2}$
7	$17\frac{1}{2}$	42	35	$31\frac{1}{2}$	$26\frac{1}{4}$	21	$15\frac{3}{4}$
8	20	48	40	36	30	24	18
9	$22\frac{1}{2}$	54	45	$40\frac{1}{2}$	$33\frac{3}{4}$	27	$20\frac{1}{4}$
10	25	60	50	45	$37\frac{1}{2}$	30	$22\frac{1}{2}$
11	$27\frac{1}{2}$	66	55	$49\frac{1}{2}$	$41\frac{1}{4}$	33	$24\frac{3}{4}$
12	30	72	60	54	45	36	27
13	$32\frac{1}{2}$	78	65	$58\frac{1}{2}$	$48\frac{3}{4}$	39	$29\frac{1}{4}$
14	35	84	70	63	$52\frac{1}{2}$	42	$31\frac{1}{2}$
15	$37\frac{1}{2}$	90	75	$67\frac{1}{2}$	$56\frac{1}{4}$	45	$33\frac{3}{4}$
16	40	96	80	72	60	48	36
17	$42\frac{1}{2}$	102	85	$76\frac{1}{2}$	$63\frac{3}{4}$	51	$38\frac{1}{4}$
18	45	108	90	81	$67\frac{1}{2}$	54	$40\frac{1}{2}$
19	$47\frac{1}{2}$	114	95	$85\frac{1}{2}$	$71\frac{1}{4}$	57	$42\frac{3}{4}$
20	50	120	100	90	75	60	45
21	$52\frac{1}{2}$	126	105	$94\frac{1}{2}$	$78\frac{3}{4}$	63	$47\frac{1}{4}$
22	55	132	110	99	$82\frac{1}{2}$	66	$49\frac{1}{2}$
23	$57\frac{1}{2}$	138	115	$103\frac{1}{2}$	$86\frac{1}{4}$	69	$51\frac{3}{4}$
24	60	144	120	108	90	72	54
25	$62\frac{1}{2}$	150	125	$112\frac{1}{2}$	$93\frac{3}{4}$	75	$56\frac{1}{4}$
26	65	156	130	117	$97\frac{1}{2}$	78	$58\frac{1}{2}$
27	$67\frac{1}{2}$	162	135	$121\frac{1}{2}$	$101\frac{1}{4}$	81	$60\frac{3}{4}$
28	70	168	140	126	105	84	63
29	$72\frac{1}{2}$	174	145	$130\frac{1}{2}$	$108\frac{3}{4}$	87	$65\frac{1}{4}$
30	75	180	150	135	$112\frac{1}{2}$	90	$67\frac{1}{2}$
31	$77\frac{1}{2}$	186	155	$139\frac{1}{2}$	$116\frac{1}{4}$	93	$69\frac{3}{4}$
32	80	192	160	144	120	96	72
Price List, per Sq. Ft.		.41	.42	.46	.50	.53	.58



# RADIATORS

## IDEAL, STEAM ONLY

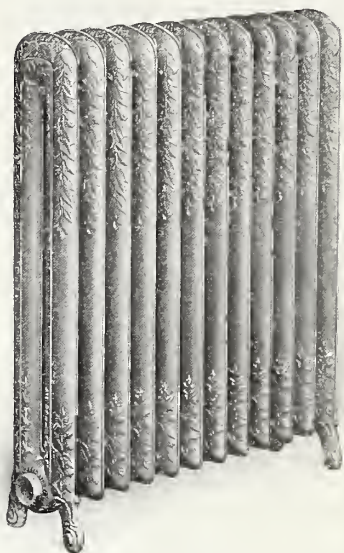


FIG. H-531

Each section is  $7\frac{3}{4}$  inches wide.  
Width of legs,  $8\frac{1}{2}$  inches.  
Connected at bottom with extra heavy right-hand threaded nipples.  
Ideal Radiators are made in special shapes as follows:

- Circular for Steam only.
- Curved for Steam only.
- Corner for Steam only.
- Concealed Bracket for Steam only.
- Legs, Extra High Solid, for Steam only.
- Marble Top, with Saddles, for Steam only.
- Stairway for Steam only.
- Window for Steam only.

These Radiators are tapped 2 inches, and bushed as per list on page 177.

Distance from floor to center of tapping: single pipe Steam, 4 inches; double pipe Steam, supply  $4\frac{1}{2}$  inches, return 4 inches.

\*In estimating length of Radiator allow  $\frac{1}{2}$  inch for each bushing.

## SPECIAL TAPPINGS

When specially ordered, can tap 1 inch or smaller at extreme top of first or second section of stack, or at bottom of second section (see illustration "A," page 177).

When especially ordered, can tap for supply and return at bottom of same end, for steam (see illustration "C," page 177). Both tappings are solid as per regular tapping list. Distance between centers  $3\frac{3}{4}$  inches; distance from floor to center of either tapping is  $4\frac{1}{2}$  inches. Supply is at right hand as you face tappings.

## HEATING SURFACE—SQUARE FEET

No. of Sections.	*Length $2\frac{1}{2}$ in. per Sec.	45 in. Height. 5 sq. ft. per Sec.	38 in. Height. 4 sq. ft. per Sec.	32 in. Height. $3\frac{1}{2}$ sq. ft. per Sec.	26 in. Height. $2\frac{1}{2}$ sq. ft. per Sec.	23 in. Height. $2\frac{1}{2}$ sq. ft. per Sec.	20 in. Height. 2 sq. ft. per Sec.
2	5	10	8	$6\frac{2}{3}$	$5\frac{1}{3}$	$4\frac{2}{3}$	4
3	$7\frac{1}{2}$	15	12	10	8	7	6
4	10	20	16	$13\frac{1}{3}$	$10\frac{2}{3}$	$9\frac{1}{3}$	8
5	$12\frac{1}{2}$	25	20	$16\frac{2}{3}$	$13\frac{2}{3}$	$11\frac{2}{3}$	10
6	15	30	24	20	16	14	12
7	$17\frac{1}{2}$	35	28	$23\frac{1}{3}$	$18\frac{2}{3}$	$16\frac{2}{3}$	14
8	20	40	32	$26\frac{2}{3}$	$21\frac{2}{3}$	$18\frac{2}{3}$	16
9	$22\frac{1}{2}$	45	36	30	24	21	18
10	25	50	40	$33\frac{1}{3}$	$26\frac{2}{3}$	$23\frac{2}{3}$	20
11	$27\frac{1}{2}$	55	44	$36\frac{2}{3}$	$29\frac{2}{3}$	$25\frac{2}{3}$	22
12	30	60	48	40	32	28	24
13	$32\frac{1}{2}$	65	52	$43\frac{1}{3}$	$34\frac{2}{3}$	$30\frac{2}{3}$	26
14	35	70	56	$46\frac{2}{3}$	$37\frac{2}{3}$	$32\frac{2}{3}$	28
15	$37\frac{1}{2}$	75	60	50	40	35	30
16	40	80	64	$53\frac{1}{3}$	$42\frac{2}{3}$	$37\frac{2}{3}$	32
17	$42\frac{1}{2}$	85	68	$56\frac{2}{3}$	$45\frac{2}{3}$	$39\frac{2}{3}$	34
18	45	90	72	60	48	42	36
19	$47\frac{1}{2}$	95	76	$63\frac{1}{3}$	$50\frac{2}{3}$	$44\frac{2}{3}$	38
20	50	100	80	$66\frac{2}{3}$	$53\frac{2}{3}$	$46\frac{2}{3}$	40
21	$52\frac{1}{2}$	105	84	70	56	49	42
22	55	110	88	$73\frac{1}{3}$	$58\frac{2}{3}$	$51\frac{2}{3}$	44
23	$57\frac{1}{2}$	115	92	$76\frac{2}{3}$	$61\frac{2}{3}$	$53\frac{2}{3}$	46
24	60	120	96	80	64	56	48
25	$62\frac{1}{2}$	125	100	$83\frac{1}{3}$	$66\frac{2}{3}$	$58\frac{2}{3}$	50
26	65	130	104	$86\frac{2}{3}$	$69\frac{2}{3}$	$60\frac{2}{3}$	52
27	$67\frac{1}{2}$	135	108	90	72	63	54
28	70	140	112	$93\frac{1}{3}$	$74\frac{2}{3}$	$65\frac{2}{3}$	56
29	$72\frac{1}{2}$	145	116	$96\frac{2}{3}$	$77\frac{2}{3}$	$67\frac{2}{3}$	58
30	75	150	120	100	80	70	60
31	$77\frac{1}{2}$	155	124	$103\frac{1}{3}$	$82\frac{2}{3}$	$72\frac{2}{3}$	62
32	80	160	128	$106\frac{2}{3}$	$85\frac{2}{3}$	$74\frac{2}{3}$	64
Price List, per Sq. Ft.		.41	.42	.46	.50	.53	.57



## RADIATORS

### Italian Flue Ornamental

#### FOR STEAM AND WATER

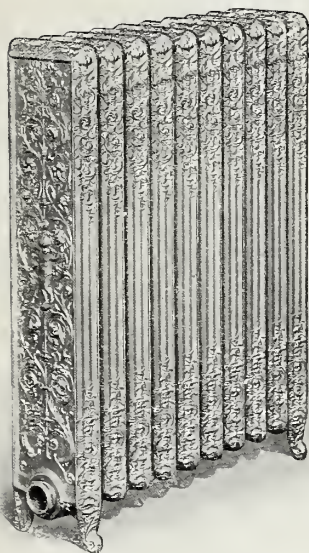


FIG. H-532

Each section is  $8\frac{1}{2}$  inches wide.  
Width at legs  $8\frac{1}{2}$  inches.  
Connected with extra heavy right and left-hand threaded nipples.

Italian Flue Radiators are made in special shapes as follows:

Corner, for Steam and Water.....on application  
Curved, for Steam and Water.....on application  
Legs, Detachable, High, for Steam and Water.....on application  
Marble-Tops, Lugs for, for Steam and Water.....on application

These Radiators are tapped 2 inches, and bushed as per list on page 177.

Distance from floor to center of supply tapping: single-pipe Steam, 4 inches; double-pipe Steam  $4\frac{1}{2}$  inches supply, 4 inches return; Water  $4\frac{1}{2}$  inches supply and return.

\*In estimating length or Radiators allow  $\frac{1}{2}$  inch for each bushing.

Leg section of Italian Flue Water Radiator has plug at top, which can be taken out to make top connection when desired. Distance between centers of upper and lower tapings is—in the 38 inch Height,  $31\frac{1}{8}$  inches; 32-inch Height,  $25\frac{1}{2}$  inches; 26-inch Height,  $19\frac{1}{2}$  inches; 20-inch Height,  $13\frac{3}{8}$  inches.

#### SPECIAL TAPPINGS

When so ordered, can furnish special tapping of 1 inch or smaller at extreme top of first or second section of stack or at bottom of second section of stack (see illustration "A" page 177).

When specially ordered, can tap for supply and return at bottom of same end for Steam (see illustration "C," page 177). Both tapings are  $1\frac{1}{2}$  inches or smaller as per regular tapping list. Distance between centers  $4\frac{1}{2}$  inches (except where adjustable High Legs are used); distance from floor to center of either tapping, 4 inches.

#### HEATING SURFACE—SQUARE FEET.

Number of Sections.	*Length 3 in. per Section.	38-in. Height. 7 sq. ft. per Section.	32-in. Height. 5 $\frac{3}{4}$ sq. ft. per Section.	26-in. Height. 4 $\frac{1}{2}$ sq. ft. per Section.	20-in. Height. 3 $\frac{1}{4}$ sq. ft. per Section.
2	6	14	11 $\frac{1}{2}$	9	6 $\frac{1}{2}$
3	9	21	17 $\frac{1}{4}$	13 $\frac{1}{2}$	9 $\frac{3}{4}$
4	12	28	23	18	13
5	15	35	28 $\frac{3}{4}$	22 $\frac{1}{2}$	16 $\frac{1}{4}$
6	18	42	34 $\frac{1}{2}$	27	19 $\frac{1}{2}$
7	21	49	40 $\frac{1}{4}$	31 $\frac{1}{2}$	22 $\frac{3}{4}$
8	24	56	46	36	26
9	27	63	51 $\frac{3}{4}$	40 $\frac{1}{2}$	29 $\frac{1}{4}$
10	30	70	57 $\frac{1}{2}$	45	32 $\frac{1}{2}$
11	33	77	63 $\frac{1}{4}$	49 $\frac{1}{2}$	35 $\frac{3}{4}$
12	36	84	69	54	39
13	39	91	74 $\frac{3}{4}$	58 $\frac{1}{2}$	42 $\frac{1}{4}$
14	42	98	80 $\frac{1}{2}$	63	45 $\frac{1}{2}$
15	45	105	86 $\frac{1}{4}$	67 $\frac{1}{2}$	48 $\frac{3}{4}$
16	48	112	92	72	52
17	51	119	97 $\frac{3}{4}$	76 $\frac{1}{2}$	55 $\frac{1}{4}$
18	54	126	103 $\frac{1}{2}$	81	58 $\frac{1}{2}$
19	57	133	109 $\frac{1}{4}$	85 $\frac{1}{2}$	61 $\frac{1}{4}$
20	60	140	115	90	65
21	63	147	120 $\frac{3}{4}$	94 $\frac{1}{2}$	68 $\frac{1}{4}$
22	66	154	126 $\frac{1}{2}$	99	71 $\frac{1}{2}$
23	69	161	132 $\frac{1}{4}$	103 $\frac{1}{2}$	74 $\frac{3}{4}$
24	72	168	138	108	78
25	75	175	143 $\frac{3}{4}$	112 $\frac{1}{2}$	81 $\frac{1}{4}$
26	78	182	149 $\frac{1}{2}$	117	84 $\frac{1}{2}$
27	81	189	155 $\frac{1}{4}$	121 $\frac{1}{2}$	87 $\frac{3}{4}$
28	84	196	161	126	91
29	87	203	166 $\frac{3}{4}$	130 $\frac{1}{2}$	94 $\frac{1}{4}$
30	90	210	172 $\frac{1}{2}$	135	97 $\frac{1}{2}$
31	93	217	178 $\frac{1}{4}$	139 $\frac{1}{2}$	100 $\frac{3}{4}$
32	96	224	184	144	104
Price List, per Sq. Ft.		.42	.46	.50	.57

## RADIATORS

**ROCOCO DINING ROOM**  
**MADE IN 44 INCH HEIGHT ONLY,**  
**STEAM AND WATER**



FIG. H-533

FIG. H-533

†No. 1 is not made in Water pattern.

These Radiators are tapped 2 inches and bushed as per list on page 177. Oven has two shelves  $17\frac{1}{4}$  inches long,  $10\frac{1}{2}$  inches wide, with 5 inches space between. Doors are stenciled "R" for Right; "L" for Left—for correct assembling.

The outside width of oven is 12 inches, and this fact should be borne in mind by fitters when arranging for connections so that distance from center of tapping to wall shall not be less than 6 inches.

In estimating LENGTH allow  $\frac{1}{2}$  inch for each bushing.

Number.	*Length, Inches.	Heating Surface, square feet.
†1	$22\frac{1}{2}$	$43\frac{1}{2}$
2	$27\frac{1}{2}$	$55\frac{1}{2}$
3	$32\frac{1}{2}$	$67\frac{1}{2}$
4	$37\frac{1}{2}$	$79\frac{1}{2}$
5	$42\frac{1}{2}$	$91\frac{1}{2}$
6	$47\frac{1}{2}$	$103\frac{1}{2}$
7	$52\frac{1}{2}$	$115\frac{1}{2}$
8	$57\frac{1}{2}$	$127\frac{1}{2}$

**COMBINATION WINDOW**  
**FOR STEAM ONLY**

**FIG. H-534**  
**NATIONAL TWO-COLUMN WINDOW**  
**RADIATOR**

Window Radiators are made in all heights of Steam patterns as follows:

Ideal (steam only).

National Single Column (steam only).

National Two-Column (steam only).

Peerless Single Column (steam only).

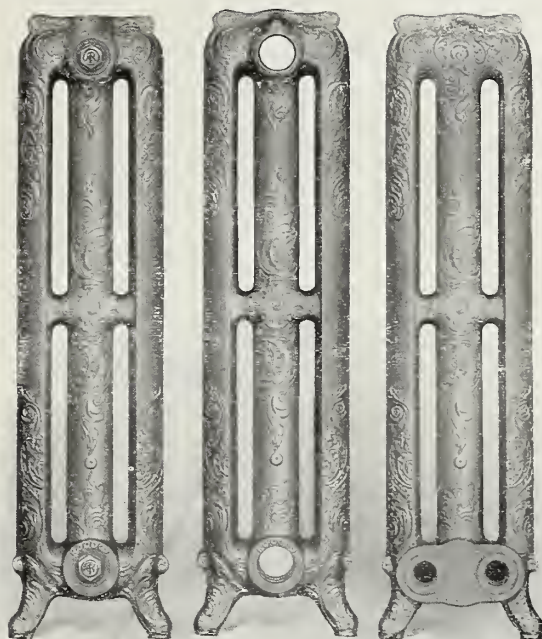
Peerless Two Column (steam only).

Perfection (steam only).



FIG. H-534

## SPECIAL DIRECT RADIATOR TAPPINGS



A

B

C

FIG. H-535

A—Tapping at top of section. B—Top and bottom tapplings, same end, for water. C—Supply and return tapplings at bottom of same end, for steam.

Figures "A" and "C" above show special tapplings which can be furnished, on special order only. Patterns in which these tapplings are set forth are set forth on preceding pages under tables of dimensions.

While it has been our practice heretofore to furnish certain patterns of slip nipple radiation regularly tapped as in figure "B," hereafter such construction will not be so tapped unless SPECIALLY NOTED ON ORDER. On right and left nipple construction Water Radiators will be furnished with plug at top of each end section, as heretofore. This plug can be removed and bushing for pipe connection inserted if necessary.

## STEAM

## ONE-PIPE WORK

Radiators containing 24 square feet and under	1 inch.
Above 24, but not exceeding 60 feet	1 1/4 inch.
Above 60, but not exceeding 100 feet	1 1/2 inch.
Above 100 square feet	2 inch.

## TWO-PIPE WORK

Radiators containing 48 square feet and under	1 x 3/4 inch.
Above 48, but not exceeding 96 feet	1 1/4 x 1 inch.
Above 96 square feet	1 1/2 x 1 1/4 inch.

## WATER

## TAPPED FOR SUPPLY AND RETURN

Radiators containing 40 square feet and under	1 inch.
Above 40, but not exceeding 72 square feet	1 1/4 inch.
Above 72 square feet	1 1/2 inch.

Vapor tapplings, top and bottom opposite ends, supply 3/4 inches, return 1/2 inch.

Unless otherwise ordered all openings of Direct Radiators will have right hand threads (except Colonial Wall Radiators where tapped 1 1/2 inch, in which case tapping at one end is right hand and left hand on other end).

All air-valve tapplings of Direct Radiators are regularly made 1/8 inch.

## RADIATORS

COLONIAL WALL  
FOR STEAM OR WATER

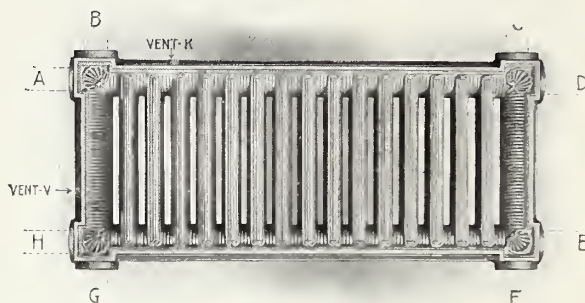


FIG. H-536

(Location of air vent boss determines location of letter indicating tapping hub.)

Extreme width,  $2\frac{5}{8}$  inches; or  $3\frac{1}{2}$  inches with bracket protection.

## SIZES AND MEASUREMENTS

The Colonial Wall Radiator is made in three sizes of sections:

Extra large size, 29 inches long,  $13\frac{1}{4}$  inches wide,  $2\frac{5}{8}$  inches thick, contains nine square feet of heating surface.

Standard size, 23 inches long,  $13\frac{1}{4}$  inches wide,  $2\frac{5}{8}$  inches thick, contains seven square feet of heating surface.

Small size,  $16\frac{3}{4}$  inches long,  $13\frac{1}{4}$  inches wide,  $2\frac{5}{8}$  inches thick, contains five square feet of heating surface.

Sections are connected or assembled with  $1\frac{1}{2}$  inch right and left hand threaded internal nipples.

On the inside of each of these right and left handed threaded internal nipples are cast two heavy projecting lugs, so that an ordinary piece of  $1\frac{1}{8}$  inch bar iron, flattened at one end, the length of nipple, can be inserted to any desired point in the radiator, and by applying wrench to bar the nipple can be screwed or unscrewed and one or more sections may be added to or taken out independently of all the others in the stack. We furnish these bars in 4 ft. length.

## DIRECTIONS FOR ORDERING

These sections are made in two styles of tappings—horizontal and vertical. In ordering, it is necessary to state which arrangement of the sections is desired. Where other arrangement of sections is desired, please send sketch showing exactly what is required.

	Per Square Foot.
Extra large size, 29 inches long, $13\frac{1}{4}$ inches wide, $2\frac{5}{8}$ inches thick, contains nine (9) square feet of heating surface .....	.42
Standard size, 23 inches long, $13\frac{1}{4}$ inches wide, $2\frac{5}{8}$ inches thick, contains seven (7) square feet of heating surface .....	.42
Small size, $16\frac{3}{4}$ inches long, $13\frac{1}{4}$ inches wide, $2\frac{5}{8}$ inches thick, contains five (5) square feet of heating surface .....	.42



## BRACKETS FOR COLONIAL WALL RADIATORS

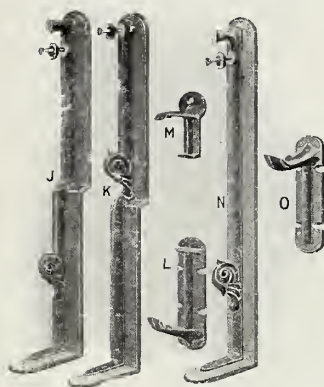


FIG. H-537

## FOOTED VERTICAL BRACKETS "J"

To fit over a  $9\frac{1}{2}$  inch high base-board or skirting, and for supporting Colonial Wall Radiators, erected vertically. With each "J" Bracket we furnish one  $\frac{1}{4}$  inch stove bolt and one button which holds the Radiator in position.

Height from floor to center of supply or return end of lowest tapping:

No. J—1 Bracket .....	$9\frac{1}{2}$ inches
No. J—2 Bracket .....	$7\frac{1}{2}$ inches
No. J—3 Bracket .....	$5\frac{1}{2}$ inches

## FOOTED HORIZONTAL BRACKETS "K"

To fit over base-board or skirting, and for supporting Colonial Wall Radiators, erected horizontally.

With each "K" Bracket we furnish one  $\frac{1}{4}$  inch stove bolt and one button. Height from floor to center of supply or return end of lowest tapping:

No. K—1 Bracket will fit over $11\frac{1}{2}$ inch high base-board or skirting	16 inches.
No. K—2 Bracket will fit over $9\frac{1}{2}$ inch high base-board or skirting	14 inches.
No. K—3 Bracket will fit over $7\frac{1}{2}$ inch high base-board or skirting	12 inches.
No. K—4 Bracket will fit over $5\frac{1}{2}$ inch high base-board or skirting	10 inches.
No. K—5 Bracket will fit over $3\frac{1}{2}$ inch high base-board or skirting	8 inches.
No. K—6 Bracket will fit over $1\frac{1}{2}$ inch high base-board or skirting	6 inches.

## BRACKET "L"

Screwed to wall, base-board or wainscoting, and supports radiators set either horizontally or vertically. The "L" Bracket is slotted for four wood screws—not furnished by us. Each section requires for its proper support one "L" and one "M" Bracket.

## BRACKET "N"

Is a straight, right-angle Bracket, without offset, for supporting Colonial Wall Radiators erected vertically or horizontally; height from floor to center of end tapping bosses,  $5\frac{1}{2}$  inches. With each "N" Bracket we furnish one  $\frac{1}{4}$  inch stove bolt and one button.

## BRACKET "M"

Screwed to wall, base-board or wainscoting, and intended to be used as a guide or to hold in position radiator supported by Bracket "L" or "O." Each section requires for its proper support one "L" or "O" and one "M" Bracket. The "M" Bracket is slotted for two wood screws—not supplied by us.

## BRACKET "O"

Screwed to wall, base-board or wainscoting, and supports underneath section set either horizontally or vertically. Should be used in connection with "M" Bracket for top guide. The "O" Bracket is slotted for four wood screws—not supplied by us.



## RADIATORS

## Perfection Pin Indirect—Complete Stack

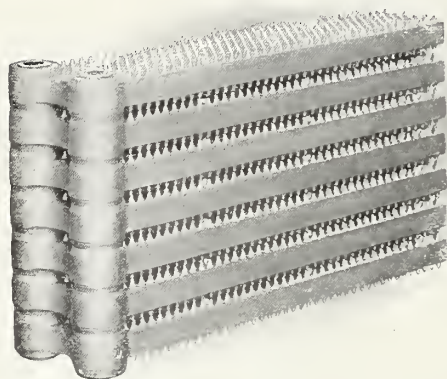


FIG. H-538

Complete Stack (sections are shipped separately unless otherwise ordered).

"Standard" and "Extra Large" sizes are tapped 2 inch, and unless otherwise ordered, will be bushed in accordance with list.

Openings will have 2 inch right hand tapping on one side and 2 inch left hand tappings on the other. Connected with extra heavy 2 inch right and left hand threaded hexagon nipples. When tappings are bushed to smaller sizes, the inside tappings in bushings will be right hand unless otherwise ordered.

If location of tapping is desired other than regular, we can furnish these radiators, when specially ordered, in the "Extra Large" size with special tappings. These indirects can also be furnished with same special tappings at reverse end of stack, if desired.

## Tapping List of Indirect Radiators

## STEAM

## ONE-PIPE WORK.

Radiators containing 24 square feet and under, 1 inch.

Above 24, but not exceeding 60 feet,  $1\frac{1}{4}$  inch.

Above 60, but not exceeding 100 feet,  $1\frac{1}{2}$  inch.

Above 100 square feet, 2 inch.

## TWO-PIPE WORK

Radiators containing 48 square feet and under,  $1\frac{3}{4}$  inch.

Above 48, but not exceeding 96 feet,  $1\frac{1}{4} \times 1$  inch.

Above 96 square feet,  $1\frac{1}{2} \times 1\frac{1}{4}$  inch.

## WATER

## TAPPED FOR SUPPLY AND RETURN

Radiators containing 40 square feet and under, 1 inch.

Above 40 but not exceeding 72 square feet,  $1\frac{1}{4}$  inch.

Above 72 square feet,  $1\frac{1}{2}$  inch.

All indirects but Primus and Standard Pins unless otherwise ordered are shipped "knocked down" with sufficient nipples to put the stack together on the job. If sections are assembled at our plants an extra charge is made for the work.

All indirect air-valve tappings are regularly made  $\frac{3}{8}$  inch.

Length of Section.	Extreme Height.	Name of Radiator.	Heating Surface.	Width Each Section Occupies in Stack	Regular Tapping.
		Indirects.		Inches†	
36	$11\frac{1}{2}$	Perfection Flange and Bolt, standard size, Steam or Water.	10	$2\frac{3}{4}$	*2
36	$15\frac{1}{2}$	Perfection Flange and Bolt, extra large size, Steam or Water.	15	$2\frac{7}{8}$	*2
36	$11\frac{1}{2}$	Perfection R. & L. Thread'd, stand'd size, Steam or Water.	10	$2\frac{3}{4}$	*2
36	$15\frac{1}{2}$	Perfection R. & L. Thread'd, ex. large size, Steam or Water.	15	$2\frac{7}{8}$	*2

\*These radiators are all regularly tapped 2 inch and bushed according to list above.

†When greater air space is desired between sections, we can so furnish on special order.

	Per Section.
Perfection Pin, standard size, steam or water, 10 square feet	\$2.70
Perfection Pin, extra large steam or water, 15 square feet	4.05

## WALL COILS

### With Close Return Bends

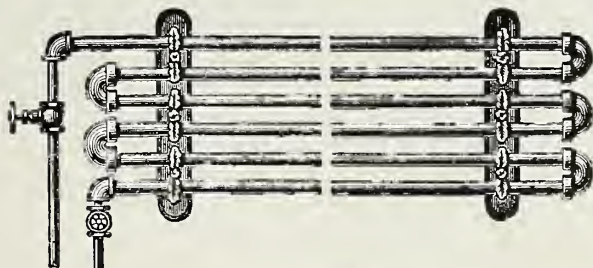


FIG. H-539

### With Branch Tees

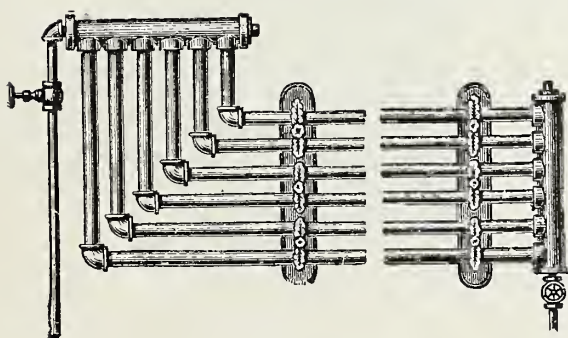


FIG. H-540

Wall Coils are made to order to specifications.

Prices on application.

RADIATOR BRONZE POWDER



FIG. H-541

Brilliant Pale Gold, per pound	\$1.50
Fine Brilliant Pale Gold, per pound	2.00
Extra Fine Brilliant Pale Gold, per pound	2.50
Brilliant Pure Aluminum, per pound	3.00
Finest Grade Pure Aluminum, per pound	4.00

These Bronzes can be had in various shades of Gold, or in Copper, Fire Green, Crimson, etc.

BRONZING LIQUIDS



FIG. H-542

BRONZING LIQUIDS

Superior, per gallon	\$3.00
A1 Quality, per gallon	2.50
Ordinary Quality, per gallon	2.00

Extra price if ordered in less quantity than one gallon.

MAROON GLOSS JAPAN

Full gallon	\$1.90
Half gallon	1.10
Quarter gallon	.65

## PIPE CEMENTS AND COMPOUNDS

## CALLAHAN'S PIPE JOINT CEMENT

## GAS FITTERS' CEMENT

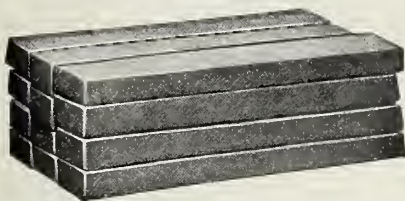


FIG. H-543

Per pound..... .20



FIG. H-544

Per pound..... .20

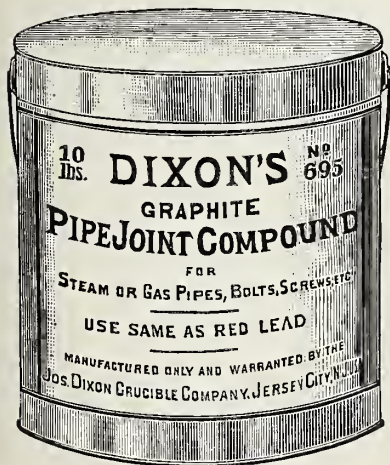


FIG. H-545

FIG. H-545

## DIXON'S GRAPHITE PIPE JOINT COMPOUND

1 lb. Cans, per pound.....	.20
5 lb. Cans, per pound.....	.18
10 lb. Cans, per pound.....	.15
25 lb. Cans, per pound.....	.14

## GREEN SEAL AND DIXON'S GRAPHITE

Green Seal Graphite Cement, per pound.....	.18
Dixon's Dry Graphite in 1 lb. Cans, per can.....	.20
Dixon's Dry Graphite in 5 lb. Cans, per can.....	.85
Dixon's Dry Graphite in 10 lb. Cans, per can.....	1.60

FIG. H-546

## SMOOTH-ON COMPOUNDS

Smooth-on Castings in yellow labeled cans is an Iron Cement for repairing blemishes, blow-holes or defects in iron or steel castings. For foundrymen.

Smooth-on Cement in blue labeled cans is an Iron Cement for repairing leaks or breaks in castings and for making connections in steam or hydraulic work. Withstands fire.

1, 5, 10 and 25 lb. cans.

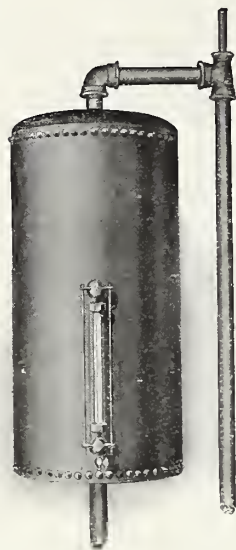
Per pound..... .50



FIG. H-546



# EXPANSION TANKS



## GALVANIZED

Number.	Size, Inches.	Capacity, Gallons.	Square Feet of Radiation.	Tanks. Each.
0	10 x 20	8	250	\$7.50
1	12 x 20	10	300	8.00
2	12 x 30	15	500	9.00
3	14 x 30	20	700	12.50
4	16 x 30	26	950	14.00
5	16 x 36	32	1300	15.00
6	16 x 48	42	2000	16.50
7	18 x 60	66	3000	31.00
8	20 x 60	82	5000	37.00
9	22 x 60	100	6000	51.00

Prices do not include Water Gauge, etc.

FIG. H-547

## AUTOMATIC

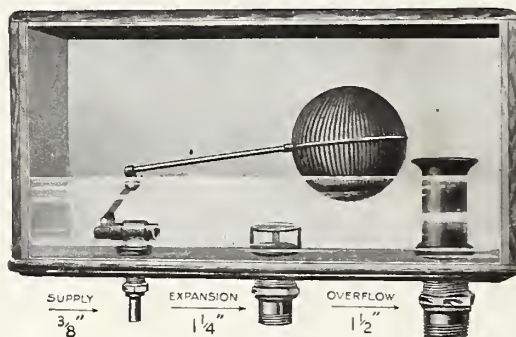


FIG. H-548

This Expansion Tank, aside from being ornamental, is absolutely automatic in its operation, INSURING ALWAYS THAT THE SYSTEM WILL BE FULL OF WATER. It is a great convenience to the house owner. It is made of hard-wood, lined with sheet copper, and is finished and varnished to match the woodwork of the room. It does not require altitude gauge nor gauge glass and fittings.

Inside measurements of tank are: 20 inches long, 9 inches wide, 10 inches deep; of ample capacity for use on any job of hot-water work to which there is attached 3000 feet of radiation or less.

## ROUGHING IN MEASUREMENTS

- $2\frac{7}{8}$  inches from outside rear edge of tank to center of either overflow or expansion.
- $5\frac{5}{8}$  inches from center of overflow to right side edge of tank.
- $5\frac{3}{8}$  inches from center of overflow to center of expansion.
- $3\frac{3}{8}$  inches from center of supply to back edge of tank.
- $4\frac{5}{8}$  inches from center of supply to left side edge of tank.

No. 252—Square corners, varnished, plain oak, each	\$8.50
No. 262—Rounded corners, varnished, plain oak, each	9.00



## THERMOMETERS

## For Hot Water and Steam Heating Systems



FIG. H-549

Straight Thermometer, for hot water, each...\$3.00

Straight Thermometer, for Steam, with pressure scale, each..... 3.25

Angle Thermometer, for hot water, each... 3.50

Angle Thermometer, for Steam, with pressure scale, each..... 3.75



FIG. H-550

## For Shower Baths, for Use on Mixing Chambers

## IN NICKEL-PLATED CASES

No. 7



FIG. H-551

No. 7, each.....\$6.00

If with Reserve Tube and Scale, add..... 2.00

No. 8, each..... 8.00

If with Reserve Tube and Scale, add..... 2.50

No. 8



FIG. H-552

## IMPROVED SAFETY WATER COLUMNS

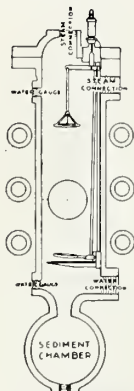
COMBINED HIGH AND  
LOW WATER ALARM

FIG. H-553

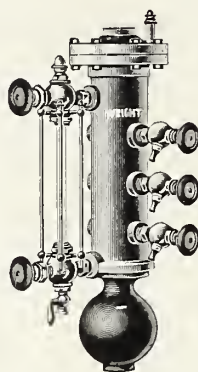


FIG. H-554

Exterior View.

## LOW WATER ALARM

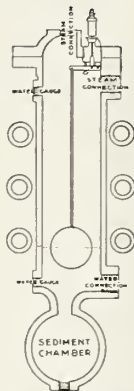


FIG. H-555

IMPROVED FEATURES in these Columns are: Round, Seamless Copper Float, a much stronger form than an Oblong Float. Vertical instead of Horizontal Valve, affording less liability of stoppage. Provision for Gauge Cocks on either side, thus doing away with all trouble about Right or Left Hand Columns. Sediment Chamber holds accumulated dirt, grit, etc., and can be frequently blown off, keeping interior parts in clean, perfect working order.

## COMBINED HIGH AND LOW WATER ALARMS

No.	Kind and Size of Boiler.	Variation Between Alarms, Inches.	Last Price of Columns Without Water Gauge and Gauge Cocks.	Steam and Water Conn.	Blow-Off.	Water Gauge.	Gauge Glass.	Gauge Cocks, Centers.	Gauge Cocks, Size.	Center of Water Conn. to Top of Column.	Diameter of Column.	Length Over All.
1	36 inches to 54 inches.	6	\$28.00	1	$\frac{3}{4}$	$\frac{1}{2}$ x14	$\frac{5}{8}$ x12	3	$\frac{1}{2}$	18 $\frac{1}{2}$	4 $\frac{1}{2}$	26
5	56 inches to 72 inches.	2	30.00	1 $\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$ x18	$\frac{3}{4}$ x16	4	$\frac{3}{4}$	21	5	30
7	Water Tube.	12	35.00	1 $\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$ x18	$\frac{3}{4}$ x16	6	$\frac{3}{4}$	24	5	33
9	Others determined by	18	40.00	1 $\frac{1}{2}$	1	$\frac{3}{4}$ x24	$\frac{3}{4}$ x22	9	$\frac{3}{4}$	30	5	39
11	natural variation of	24	42.50	1 $\frac{1}{2}$	1	$\frac{3}{4}$ x30	$\frac{3}{4}$ x28	12	$\frac{3}{4}$	36	5	45
13	water in boiler. See	30	45.00	1 $\frac{1}{2}$	1	$\frac{3}{4}$ x36	$\frac{3}{4}$ x34	10	$\frac{3}{4}$	42	5	51
15	Note.	36	50.00	1 $\frac{1}{2}$	1	$\frac{3}{4}$ x42	$\frac{3}{4}$ x40	12	$\frac{3}{4}$	49	5	57

## LOW WATER ALARMS.

## GENERAL DIMENSIONS IN INCHES.

No.	Kind and Size of Boiler.	Variation Between Alarms, Inches.	Last Price of Columns Without Water Gauge and Gauge Cocks.	Steam and Water Conn.	Blow-Off.	Water Gauge.	Gauge Glass.	Gauge Cocks, Centers.	Gauge Cocks, Size.	Center of Water Conn. to Top of Column.	Diameter of Column.	Length Over All.
2	36 inches to 54 inches.	-----	25.00	1	$\frac{3}{4}$	$\frac{1}{2}$ x14	$\frac{5}{8}$ x12	3	$\frac{1}{2}$	18 $\frac{1}{2}$	4 $\frac{1}{2}$	26
6	56 inches to 72 inches.	-----	28.00	1 $\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$ x18	$\frac{3}{4}$ x16	4	$\frac{3}{4}$	21	5	30
8	Water Tube.	-----	35.00	1 $\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$ x18	$\frac{3}{4}$ x16	6	$\frac{3}{4}$	24	5	33

\*Two Glasses joined at Center with Stuffing Box. Four Gauge Cocks.

NOTE.—The size of the Columns is in all cases determined by the natural variation of the water in the Boiler on which it is to be used. No mistake will be made ordinarily by selecting one of our Columns having the extreme Gauge Cocks the same distance apart as on the plain Column furnished with Boiler.

**IMPORTANT.**—To avoid mistakes when ordering, please note that the Combined High and Low Water Alarms are designated by ODD numbers, and Low Water Alarms by EVEN numbers.

All working parts are attached to the Cap, and are removed when the Cap is removed. No expert help or special tools are needed to repair these Columns. Provision is made for Gauge Cocks on either side of all these Columns.

## WATER COLUMN



FIG. H-556

Number	00	0	1	2	3	4	5	6
Cen. to Cen. Boiler Connections, inches	---	---	10	$12\frac{1}{2}$	14	18	---	---
Cen. to Cen. Water Gauge Connections, in	13	$9\frac{1}{2}$	10	$12\frac{1}{2}$	14	18	$13\frac{3}{8}$	$17\frac{1}{8}$
Cen. to Cen. Gauge Cocks, inches	---	---	$3\frac{3}{8}$	$3\frac{3}{4}$	$4\frac{1}{4}$	4	$3\frac{5}{8}$	$4\frac{1}{2}$
Extreme Length, inches	$17\frac{3}{8}$	$13\frac{1}{4}$	$13\frac{1}{8}$	$16\frac{1}{2}$	19	$22\frac{3}{8}$	$20\frac{1}{4}$	$30\frac{1}{4}$
Tapped for Boiler Connections, inches	---	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$1\frac{1}{4}$	---	---
Tapped for Water Gauge Connections, in	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$
Tapped for Gauge Cocks, inches	---	---	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{4}$
Tapped Top and Bottom, inches	$1\frac{1}{4}$	$1\frac{1}{4} \times \frac{3}{4}$	$\frac{3}{4}$	1	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$
Each	\$3.00	1.50	2.75	4.00	6.00	8.00	7.50	12.00

Nos. 0 and 00 are designed especially for House Heating Boilers, no holes for Gauge Cocks. With Nos. 00, 5 and 6 the Connection to Boiler is made from Top and Bottom of column.

## GAUGE GLASS WASHERS

ACME



FIG. H-557

Depth of Cushion,  $\frac{1}{4}$  inch.  
Width of Cushion,  $\frac{1}{8}$  inch.

MOULDED



FIG. H-558

CUT



FIG. H-559

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Per doz	.15	.20	.25	.35

No. 1—	$\frac{1}{2}$ inch, per box, one doz	.60
No. 2—	$\frac{5}{8}$ inch, per box, one doz	.60
No. 3—	$\frac{3}{4}$ inch, per box, one doz	.60
No. 4—	1 inch, per box, half doz	.60

# WATER GAUGES

No. 1

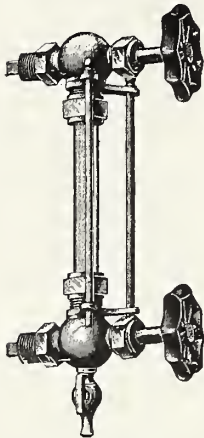


FIG. H-560



FIG. H-561



FIG. H-562

## ROBERTS' SELF-CLEANING WATER GAUGES

FIGS. H-560 AND H-561

No.	Body.	Wheel.	Boiler Con.	Size Glass.	Each.
1	Bronzed	Iron	$\frac{1}{2}$ inch.	$\frac{5}{8}$ x 12 inch.	\$3.00
2	Polished	"	$\frac{1}{2}$ "	$\frac{5}{8}$ x 12 "	3.50
3	"	Wood	$\frac{1}{2}$ "	$\frac{5}{8}$ x 12 "	4.25
$1\frac{1}{2}$	Bronzed	Iron	$\frac{3}{4}$ "	$\frac{3}{4}$ x 16 "	4.50
6	Polished	"	$\frac{3}{4}$ "	$\frac{3}{4}$ x 16 "	5.25
$7\frac{1}{2}$	"	Wood	$\frac{3}{4}$ "	$\frac{3}{4}$ x 16 "	5.50



FIG. H-563

## EXPANSION TANK WATER GAUGE

FIG. H-562

No. 0000, Bronze Body,  $\frac{1}{2}$  in. Boiler Connection,  $\frac{5}{8}$  x 12 in. Glass, each \$2.60

## THE P. B. H. QUICK CLOSING WATER GAUGE

FIG. H-563

Size Glass, Inches.	Shank, Inches.	Polished Brass.	Nickel- plated.	Rough Brass.
$\frac{3}{8}$ diameter. Any length up to 18 inch centers.	$\frac{1}{2}$ or $\frac{3}{4}$	\$12.00	\$14.00	\$11.00

IN ORDERING STATE DISTANCE BETWEEN GAUGE CENTERS.

Sufficient Brass Safety Chain furnished to operate gauge 10 feet from the floor. Extra chain at prices to cover cost.

## SCOTCH GAUGE GLASSES



FIG. H-564

Length, inches.	EXTERNAL DIAMETER IN INCHES. Per dozen.			
	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
10	\$3.00	\$3.00	\$3.60	\$6.12
11	3.24	3.24	3.96	6.72
12	3.60	3.60	4.32	7.32
13	3.84	3.84	4.80	7.92
14	4.20	4.20	5.16	8.52
15	4.44	4.44	5.52	9.12
16	4.80	4.80	5.88	9.72
17	5.04	5.04	6.24	10.32
18	5.40	5.40	6.60	10.92
19	5.64	5.64	7.08	11.52
20	6.00	6.00	7.44	12.12
22	6.60	6.60	8.16	13.44
24	7.20	7.20	8.88	14.64
30	9.00	9.00	11.16	18.24
36	10.80	10.80	13.44	21.96
48	14.52	14.52	18.00	29.16
60	18.12	18.12	22.56	36.48
72	21.84	21.84	27.12	43.80

## GAUGE GLASS CUTTERS

"CHESTERTON'S"

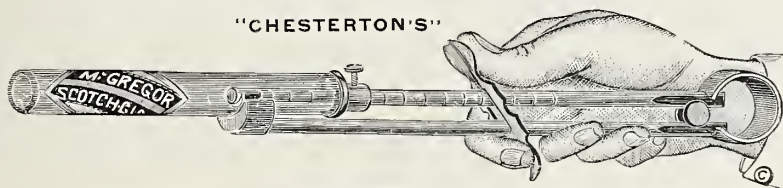


FIG. H-565

Each ..... \$2.50      Extra Cutter Wheels, each ..... .15

"NEWARK"



FIG. H-566

Each ..... \$1.00



## GAUGES

COMBINATION WATER WORKS  
GAUGESSHOW PRESSURE AND FEET IN COLUMN  
OF WATER

## STEAM GAUGES



FIG. H-567



FIG. H-568

FIG. H-567—STEAM GAUGES

SIZE.	Iron Case, Brass Ring.	Iron Case, N. P. Ring.	Brass Case.	N. P. Case.	Brass Deep Case, O. G. or Oct. Ring.	N. P. Deep Case, O. G. or Oct. Ring.
12 inch Dial	\$50.00	\$51.50	\$75.00	\$79.00	\$80.00	\$84.00
10 inch Dial	32.00	33.00	40.00	43.00	44.00	47.00
8½ inch Dial	22.00	22.75	30.00	32.50	33.50	36.00
6¾ inch Dial	16.00	16.60	20.00	22.00	23.00	25.00
6 inch Dial	13.00	13.50	16.00	17.50	18.50	20.00
5½ inch Dial	10.00	10.25	12.00	13.25	13.75	15.00
5 inch Dial	8.00	8.20	11.00	12.00	12.50	13.50
4½ inch Dial	8.00	8.20	10.00	11.00	11.50	12.50
3½ inch Dial	7.00	7.18	9.00	9.75	10.25	11.00
3 inch Dial	6.00	6.15	8.00	8.60	9.25	9.75
2½ inch Dial	6.00	6.15	8.00	8.60	9.25	9.75
2 inch Dial	6.00	6.15	8.00	8.60	9.25	9.75

Prices include Cock.

FIG. H-568—COMBINATION WATER PRESSURE GAUGES

SIZE.	Iron Case, Brass Ring.	Iron Case, N. P. Ring.	Brass Case.	N. P. Case.	Brass Deep Case, O. G. or Oct. Ring.	N. P. Deep Case, O. G. or Oct. Ring.
12 inch Dial	\$60.00	\$61.50	\$80.00	\$84.00	\$85.00	\$89.00
10 inch Dial	40.00	41.00	50.00	53.00	54.00	57.00
8½ inch Dial	30.00	30.75	40.00	42.50	43.50	46.00
6¾ inch Dial	20.00	20.60	25.00	27.00	28.00	30.00
6 inch Dial	16.00	16.50	20.00	21.50	23.00	24.50
5½ inch Dial	14.00	14.25	16.00	17.25	18.50	19.75
4½ or 5 inch Dial	12.00	12.20	14.00	15.00	16.00	17.00

Prices include Cock.

## GAUGES

ALTITUDE GAUGE

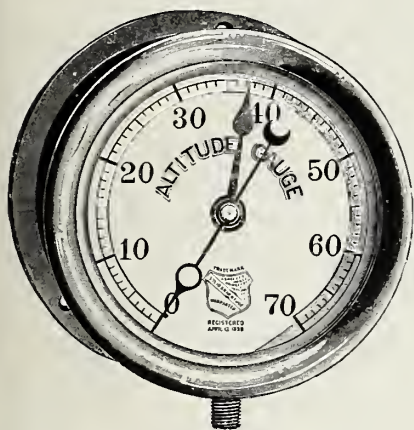


FIG. H-569

COMPOUND PRESSURE AND VACUUM GAUGE

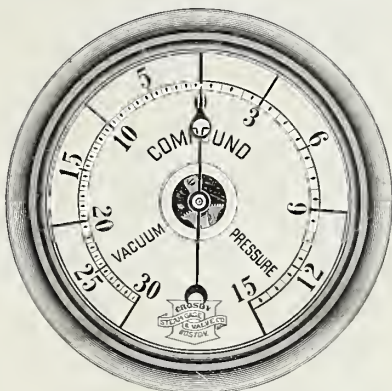


FIG. H-570

No extra charge will be made for marking customer's name on Dials when ordered in lots of 25 or more in one shipment.

Extra charge for marking customer's name when ordered in lots of less than 25 in one shipment—5 cents each net.

We also carry Auxiliary Spring Gauges, especially adapted for Traction and Portable Engines.

FIG. H-569—ALTITUDE GAUGES

Size.	Iron Case, Brass Ring.	Iron Case, N. P. Ring.	Brass Case.	N. P. Case.	Brass Deep Case, O. G. or Oct. Ring.	N. P. Deep Case, O. G. or Oct. Ring.
12 inch Dial	\$60.00	\$61.50	\$80.00	\$84.00	\$85.00	\$89.00
10 inch Dial	40.00	41.00	50.00	53.00	54.00	57.00
8½ inch Dial	30.00	30.75	40.00	42.50	43.50	46.00
6¾ inch Dial	20.00	20.60	25.00	27.00	28.00	30.00
6 inch Dial	16.00	16.50	20.00	21.50	23.00	24.50
5½ inch Dial	14.00	14.25	16.00	17.25	18.50	19.75
4½ or 5 inch Dial	12.00	12.20	14.00	15.00	16.00	17.00

Prices include Cock.

FIG. H-570—COMPOUND PRESSURE AND VACUUM GAUGES

Size.	Iron Case, Brass Ring.	Iron Case, N. P. Ring.	Brass Case.	N. P. Case.	Brass Deep Case.	N. P. Deep Case.
12 inch Dial	\$60.00	\$61.50	\$80.00	\$84.00	\$85.00	\$89.00
10 inch Dial	40.00	41.00	50.00	53.00	54.00	57.00
8½ inch Dial	30.00	30.75	40.00	42.50	43.50	46.00
6¾ inch Dial	20.00	20.60	25.00	27.00	28.00	30.00
6 inch Dial	16.00	16.50	20.00	21.50	---	---
5½ inch Dial	14.00	14.25	16.00	17.25	---	---
5 inch Dial	14.00	14.25	16.00	17.25	---	---
4½ inch Dial	12.00	12.20	14.00	15.00	---	---
3½ inch Dial	10.00	10.18	12.00	12.75	---	---

Prices include Cock.

## STEAM WHISTLES

## WITH VALVE



FIG. H-571

## WITH VALVE



FIG. H-573

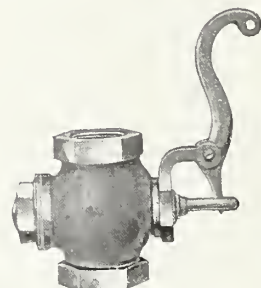


FIG. H-575

Diameter of Bell, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$
Tapped, inch	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{8}$
Fig. H-571—Each	\$3.10	3.75	4.00
Fig. H-572—Each	2.20	2.75	3.00

Diameter of Bell, inches	2	2 $\frac{1}{2}$	3
Tapped, inch	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$
Fig. H-571—Each	\$5.50	6.50	8.50
Fig. H-572—Each	4.35	5.25	7.25

Diameter of Bell, inches	3 $\frac{1}{2}$	4	5
Tapped, inch	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$
Fig. H-571—Each	\$11.50	15.00	22.50
Fig. H-572—Each	9.50	12.00	19.00

Diameter of Bell, inches	6	8
Tapped, inch	1 $\frac{1}{2}$	2
Fig. H-571—Each	\$33.00	95.00
Fig. H-572—Each	24.00	70.00

## WITHOUT VALVE



FIG. H-572

## WITHOUT VALVE

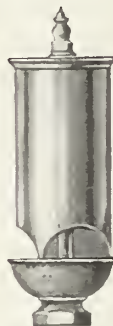


FIG. H-574

## CHIME STEAM WHISTLES

Diameter of Bell, in.	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	4
Tapped, inch	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	1 $\frac{1}{4}$
Fig. H-573—Each	\$7.50	8.00	11.00	14.00	20.00
Fig. H-574—Each	4.50	5.00	7.50	9.50	15.00

Diameter of Bell, inches	5	6	8
Tapped, inch	1 $\frac{1}{2}$	1 $\frac{1}{2}$	2
Fig. H-573—Each	\$35.00	50.00	110.00
Fig. H-574—Each	28.00	42.00	95.00

## WHISTLE VALVES

FIG. H-575

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1
Brass, each	\$2.50	3.00	3.50

Size, inches	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Brass, each	\$5.00	6.00	9.00	18.00	27.00

## ENGINE OILERS

RAILROAD  
OILER

## ENGINEERS' FILLER



FIG. H-576



FIG. H-577



FIG. H-578

## FIG. H-576—ENGINEERS' FILLERS

Number	19	19A	210	211
Capacity	1 Pint.	1½ Pints.	1 Quart.	2 Quarts.
Steel, per doz	\$14.00	17.00	20.00	24.00
Number	190	200	201	
Capacity	1½ Pints.	1 Quart.	2 Quarts.	
Brass, per doz	\$22.00	30.00	34.00	

## FIGS. H-577 AND H-578—STEEL AND BRASS OILERS

Number	12	13	13A	14	14A	14AA	14B	15	15A	16
Diameter, inches	2¾	3⅜	3⅜	3⅜	3¾	3¾	3¾	4¼	4¼	4¼
Length of Spout, in	2½	3	5	9	3	5	9	3	5	9
Steel, per doz	\$4.50	5.50	6.00	6.50	7.50	8.00	8.50	9.25	9.75	10.50
Brass, per doz	6.50	8.00	---	9.20	10.20	---	11.20	12.00	---	14.00

## FIG. H-579



## FIG. H-579—RAILROAD OILERS

Number	10	11	11A	17	18	18A
Diameter, inches	3⅜	4⅜	5	3⅜	4⅜	5
Height, inches	5	6	8	5	6	8
Length of Spout, inches	12	18	18	12	18	18
Capacity	1 Pint.	1 Quart.	2 Quarts.	1 Pint.	1 Quart.	2 Quarts.
Steel, per doz	\$14.00	18.00	20.00	---	---	---
Brass, per doz	---	---	---	18.00	21.00	24.00

## ENGINEERS' SETS

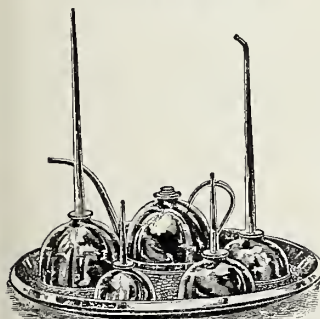


FIG. H-580

## FIG. H-580—ENGINEERS' SETS

Number of Pieces, including Tray	5	6
Steel	\$5.00	\$7.00
Brass	6.00	9.00
Brass, Nickel-plated	8.00	11.00

For Steamboat Sets, so made as to prevent the motion of the vessel displacing the Oilers, add \$1.00 to above prices.



## BRASS OIL CUPS

PLAIN



FIG. H-581

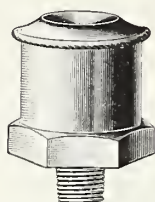
LOCOMOTIVE  
PATTERN

FIG. H-582

WITH COCK

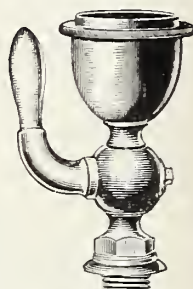


FIG. H-583

FIG. H-581—PLAIN

Outside Diameter, inches	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	3
Pipe Thread, inches	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$
Each	.25	.30	.35	.40	.60	.90	1.25	1.75	2.25	2.75	4.00

FIG. H-582—LOCOMOTIVE PATTERN

Outside Diameter, inches	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$
Pipe Thread, inches	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$
Each	.35	.40	.50	.75	1.00	1.50	2.00	3.00

FIG. H-583—WITH COCK

Outside Diameter, inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$
Pipe Thread, inches	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Each	\$1.10	1.60	2.20	2.75	3.25	4.00	5.00

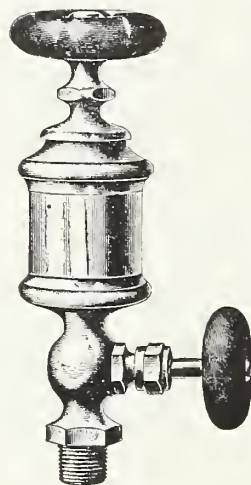


FIG. H-584

## PLAIN ENGINE LUBRICATORS

FIG. H-584

Number	00	0	1	2	3
Diameter, inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2
Capacity, ounces	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$2\frac{1}{2}$
Pipe Thread, inches	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$
Plain, each	\$2.00	2.20	2.40	2.60	2.90
With Drain Cock and Tube, each	3.00	3.20	3.40	3.60	3.90

Number	4	5	6	7	8
Diameter, inches	$2\frac{1}{4}$	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Capacity, ounces	4	5	10	18	24
Pipe Thread, inches	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$
Plain, each	\$3.25	3.75	4.75	7.00	10.00
With Drain Cock and Tube, each	4.25	4.75	5.75	8.00	11.00



## NATHAN'S SELF-OILERS

## FOR SHAFTING AND ENGINES

No. 9



FIG. H-585

No. 10



FIG. H-586

No. 10  
W. B.

FIG. H-587

No.		Cap'ty ounces.	Diam. inches.	Height inches.	Per dozen.
000	For Cards, Looms, Lathes or for small Journals.....	$\frac{3}{4}$	$1\frac{1}{2}$	$2\frac{1}{8}$	\$4.50
000	For Cards, Looms, Lathes or for small Journals, $\frac{1}{8}$ inch Shanks.....	$\frac{3}{4}$	$1\frac{1}{2}$	$2\frac{1}{8}$	5.00
00	For Cards, Looms, Lathes or for small Journals.....	$\frac{3}{4}$	$1\frac{1}{8}$	$2\frac{1}{8}$	4.50
0	For Card Cylinders, Strippers and compact connections.....	1	$2\frac{1}{4}$	$2\frac{1}{2}$	4.50
0	For Card Cylinders, Strippers and compact connections, $\frac{1}{8}$ inch Shanks.....	1	$2\frac{1}{4}$	$2\frac{1}{2}$	5.00
3	For Card Cylinders, Strippers and compact connections, to fill from top.....	$\frac{3}{4}$	$1\frac{1}{8}$	$2\frac{1}{8}$	4.50
9	For Shaftings, Pickers, Looms and Fans.....	$1\frac{1}{2}$	$2\frac{1}{2}$	$3\frac{1}{4}$	4.50
9	W. B. for compact Shaftings or connections.....	$1\frac{1}{2}$	$1\frac{3}{4}$	$3\frac{1}{4}$	4.50
10	For Shaftings, Pickers, Looms and Fans.....	$3\frac{1}{2}$	$2\frac{3}{4}$	$4\frac{1}{4}$	4.50
10	W. B. for compact Shaftings or connections.....	3	2	$4\frac{1}{4}$	4.50



FIG. H-588

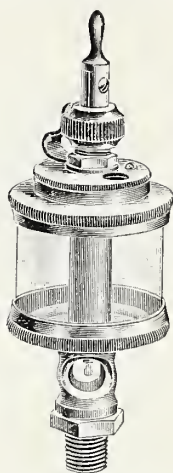
## CYLINDRICAL GLASS

PRICE LIST OF CYLINDRICAL GLASSES, CORK  
WASHERS AND SIGHT-FEED PROTECTORS

TERMINAL NO.	1	2	3	4	5	6
Diameter of Glass, inches.....	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2
Height of Glass, inches.....	$\frac{7}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{3}{4}$
Capacity, ounces.....	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	1	$1\frac{1}{2}$	2
Glasses, per dozen.....	\$1.60	\$1.72	\$1.84	\$1.96	\$2.20	\$2.50
Cork Washers, per doz. sets.....	.65	.70	.75	.80	.85	.90
Glass Sight Feed Protectors, per dozen.....	.75	.75	.75	.75	.75	.75

TERMINAL NO.	7	8	9	10	11	12
Diameter of Glass, inches.....	$2\frac{3}{8}$	$2\frac{3}{4}$	$3\frac{1}{8}$	$3\frac{1}{2}$	4	$4\frac{1}{2}$
Height of Glass, inches.....	$2\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$	$3\frac{1}{2}$	$4\frac{1}{4}$	5
Capacity, ounces.....	4	6	10	15	24	36
Glasses, per dozen.....	\$2.80	\$3.40	\$4.00	\$4.60	\$5.80	\$8.20
Cork Washers, per dozen sets.....	1.00	1.10	1.30	1.70	2.30	3.50
Glass Sight Feed Protectors, per dozen.....	1.00	1.00	1.00	1.00	1.00	1.00

To Increase Feed Turn to Right  
To Decrease Feed Turn to Left



'Signal Up,' Cup Feeding  
FIG. H-589

## NEW "SIGNAL" PATTERN STOP AND SIGHT-FEED OILER

FIG. H-589—CAPACITY AND PRICE LIST

No.	Height of Cup, Complete. Inches. Signal Up.	Diameter of Cup, Complete. Inches.	Capacity in Ounces.	Size of Shank Pipe Thread. Inches.	Price per Dozen.
843	5	1 7/16	1 1/2	1/8	\$16.00
844	5 1/2	1 13/16	1	1/4	18.00
845	5 3/4	2	1 1/2	1/4	21.00
846	6 1/4	2 3/16	2	3/8	24.00
847	6 3/4	2 1/8	4	3/8	27.00
848	7 3/8	2 1/8	6	3/8	32.00
849	8 1/8	3 1/8	10	1/2	40.00
850	8 3/4	3 1/8	15	1/2	54.00
851	10 3/8	4 1/8	24	1/2	84.00
852	11 3/8	4 1/8	36	1/2	120.00

To Increase Feed Turn to Right  
To Decrease Feed Turn to Left

## NEW "SIGNAL" STOP AND SCREW SETTING SIGHT-FEED OILER

FOR GAS, GASOLINE AND OIL ENGINES

FIG. H-590—CAPACITY AND PRICE LIST

No.	Height of Cup Complete. Inches. Signal Up.	Diameter of Cup, Complete. Inches.	Capacity in Ounces.	Size of Shank Pipe Thread. Inches.	Price per Dozen.
745	5 1/8	2	1 1/2	1/4	\$27.00
746	6 1/8	2 3/16	2	5/8	30.00
747	6 3/8	2 3/8	4	3/8	36.00
748	7 1/8	2 5/8	6	3/8	42.00
749	7 3/8	3	10	1/2	54.00
750	8 3/4	3 3/8	15	1/2	72.00
751	9 1/8	4 1/8	24	1/2	108.00
752	10 3/8	4 1/8	36	1/2	168.00



'Signal Up,' Cup Feeding  
FIG. H-590

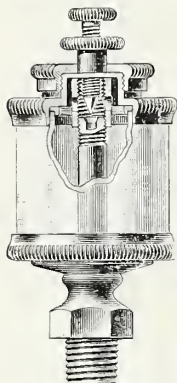


FIG. H-591

## NEW CRANK PIN OILER

SLIDING TOP

NEEDLE FEED PATTERN

CAPACITY AND PRICE LIST

Number.....	622	623	624	625	626	627
Capacity in Ounces.....	$3\frac{3}{8}$	$1\frac{1}{2}$	1	$1\frac{1}{2}$	2	4
Size of Shank Pipe Thread, inches	$1\frac{1}{8}$	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{7}{8}$	$\frac{3}{4}$
Per Dozen.....	\$16.00	\$18.00	\$21.00	\$27.00	\$30.00	\$33.00
<hr/>						
Number.....	628	629	630	631	632	
Capacity in Ounces.....	6	10	15	24	36	
Size of Shank Pipe Thread, inches	$3\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{1}{2}$	
Per Dozen.....	\$40.00	\$54.00	\$72.00	\$108.00	\$168.00	

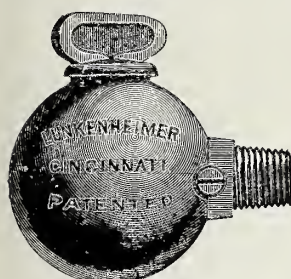
BRASS LOOSE PULLEY  
OILER

FIG. H-592

This oiler must be attached to hub of pulley, is easily filled and regulated, will not throw or waste oil, and a trial will convince users that it is a simple and satisfactory oiler for loose pulleys. It is guaranteed to give satisfaction, one filling lasting from two to four weeks, and feeding only when pulley is in motion.

Number.....	0	1	2	3	4
Height of Cup, (plug raised to fill,) inches.....	$1\frac{5}{16}$	$2\frac{5}{16}$	$2\frac{5}{8}$	3	$3\frac{1}{8}$
Length of Cup, inches.....	$1\frac{3}{4}$	2	$2\frac{5}{8}$	$2\frac{1}{2}$	$2\frac{3}{4}$
Diameter of Body, inches.....	1	$1\frac{5}{8}$	$1\frac{7}{8}$	$1\frac{3}{4}$	2
Capacity, ounces.....	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{3}{4}$
Rough Brass, Bronzed, each.....	.25	.30	.40	.50	.65

Shanks on Nos. 0, 1 and 2 are threaded  $\frac{3}{8}$  inch on point, 16 threads to the inch. Shanks on Nos. 3 and 4 are threaded  $\frac{1}{4}$  inch pipe thread.

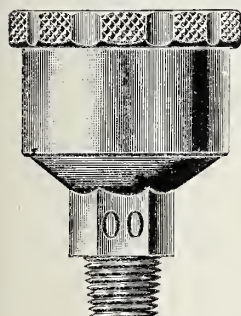
PLAIN BRASS  
GREASE CUP

FIG. H-593

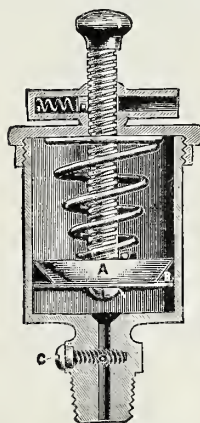
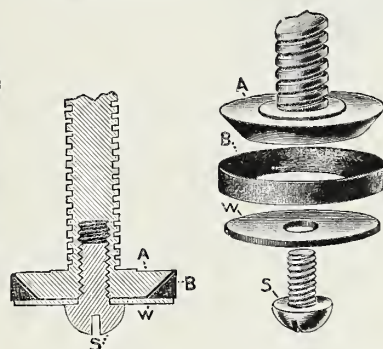
"MOON" AUTOMATIC  
GREASE CUP

FIG. H-594

## FIG. H-593—PLAIN BRASS GREASE CUPS

## LIST OF THREADS, DIAMETERS, PRICES, ETC.

When no style or finish is mentioned, orders will be filled with finished brass.

Number.....	00	0	1	2	3
Inside Diameter, inches.....	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Shank Pipe Thread, inches.....	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$
Capacity (Grease), ounces.....	$\frac{1}{2}$	$\frac{2}{3}$	1	2	$3\frac{1}{2}$
Finished Brass, each.....	.70	.90	1.15	1.50	2.15
Rough Brass, each.....	.56	.74	.96	1.28	1.76
Nickel-plated, each.....	.82	1.06	1.36	1.80	2.60

## FIG. H-594—"MOON" AUTOMATIC GREASE CUPS

Number.....	0	1	2	3	4	5
Diameter, inches.....	1	$1\frac{1}{2}$	2	$2\frac{1}{8}$	$2\frac{3}{4}$	$3\frac{1}{2}$
Height over all, inches.....	$2\frac{3}{4}$	$3\frac{1}{8}$	$4\frac{1}{8}$	$4\frac{3}{4}$	$6\frac{1}{4}$	8
Pipe Thread, inches.....	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$
Capacity, ounces.....	$\frac{1}{8}$	1	$1\frac{1}{2}$	$2\frac{1}{2}$	$5\frac{1}{2}$	10
Finished, each.....	\$1.50	2.00	2.50	3.20	4.30	9.00
Nickel-plated, each.....	1.75	2.40	3.00	3.60	5.00	9.75

## REVERSIBLE HAND OIL PUMPS

### GLASS BODY, VERTICAL

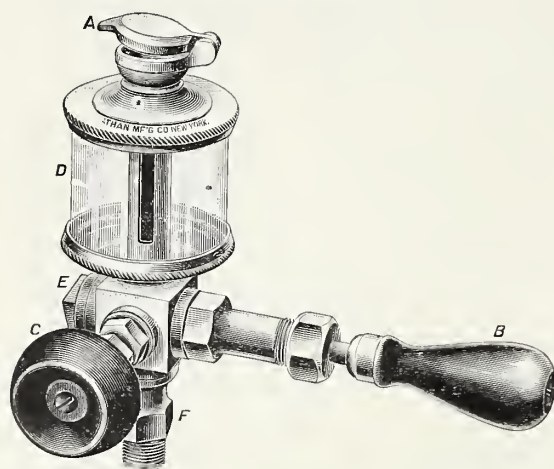


FIG. H-595

- A. Filler Cap
- B. Plunger
- C. Shut-off Valve
- D. Oil Chamber
- E. Plug
- F. Shank

### BRASS BODY, HORIZONTAL

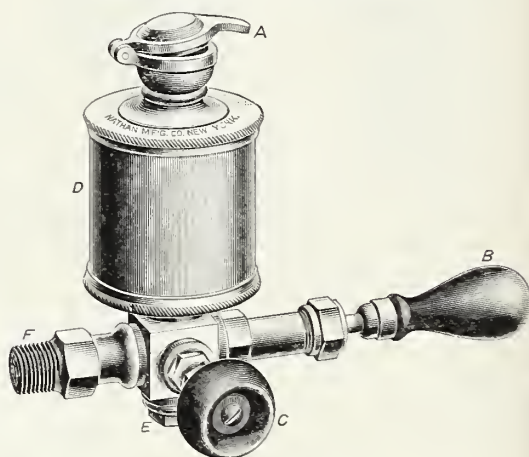


FIG. H-596

- A. Filler Cap
- B. Plunger
- C. Shut-off Valve
- D. Oil Chamber
- E. Plug
- F. Shank

Glass Body, capacity in ounces .....	4	6	10	15	24	36
Brass Body, capacity in ounces .....	4	8	12	16	24	32
Figs. H-595 and H-596—Either Pattern, each .....	\$12.00	15.00	18.00	24.00	30.00	42.00



## HAND CYLINDER OIL PUMP GLASS BODY

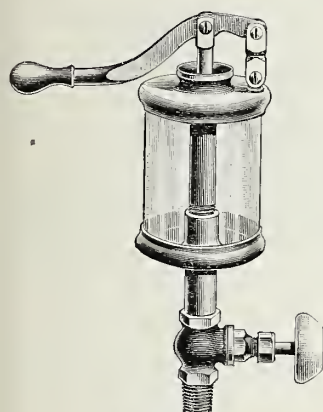


FIG. H-597

FIG. H-597

Capacity, ounces.....	4	8	12	16	32
Brass, either pattern,					
each .....	\$8.00	12.00	16.00	20.00	36.00
Polished, either pat-					
tern, each .....	8.00	12.00	16.00	20.00	36.00
Nickel-plated, either					
pattern, each.....	8.00	12.00	16.00	20.00	36.00

## THE DEFENDER UP-DROP SIGHT-FEED LUBRICATOR

FOR STEAM CHESTS AND CYLINDERS OF STATIONARY ENGINES AND  
PUMPS OF ALL KINDS

FIG. H-598

WITHOUT OIL GAUGE GLASS

Capacity .....	$\frac{1}{3}$ pt.
Nickel-plated, each .....	\$14.00

WITH OIL GAUGE GLASS

Capacity .....	$\frac{1}{2}$ pt.	$\frac{3}{4}$ pt.	1 pt.	$1\frac{1}{2}$ pt.	1 qt.
Nickel-plated, each .....	\$20.00	24.00	30.00	36.00	44.00

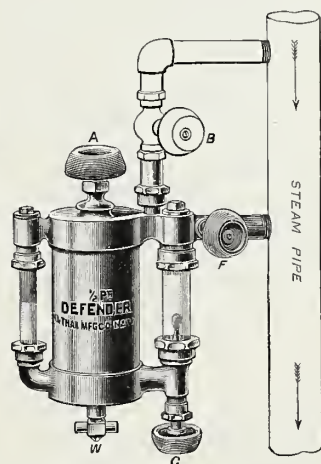


FIG. H-598



## THE DETROIT IMPROVED STANDARD LUBRICATOR

### FOR STATIONARY ENGINES

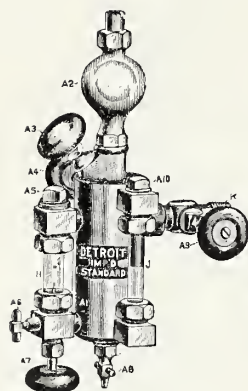


FIG. H-599

Capacity .....	$\frac{1}{2}$ Pint.	$\frac{1}{2}$ Pint.	1 Pint.	1 Quart	$\frac{1}{2}$ Gal.	1 Gal.
For Cylinder .....	under 10 ins.	10 to 12 ins.	12 to 18 ins.	18 to 30 ins.	30 ins. & over.	
Brass Finish .....	\$17.00	\$22.00	\$30.00	\$45.00	\$60.00	\$75.00
Nickel Finish .....	20.00	25.00	35.00	50.00	65.00	80.00
Pipe thread on support arm .....	$\frac{1}{2}$ inch	$\frac{1}{2}$ inch	$\frac{1}{2}$ inch	$\frac{1}{2}$ inch	$\frac{3}{4}$ inch	$\frac{3}{4}$ inch

### SIZES OF GLASSES USED

Sight Feed .....	$\frac{5}{8}$ x 2	$\frac{3}{4}$ x 3	$\frac{3}{4}$ x 3	$\frac{3}{4}$ x $3\frac{1}{4}$	$\frac{3}{4}$ x $3\frac{1}{4}$	$\frac{3}{4}$ x $3\frac{1}{4}$
Gauge .....	$\frac{5}{8}$ x 2	$\frac{5}{8}$ x $3\frac{1}{4}$	$\frac{5}{8}$ x $4\frac{3}{8}$	$\frac{5}{8}$ x $4\frac{3}{8}$	$\frac{5}{8}$ x $6\frac{3}{4}$	$\frac{5}{8}$ x $9\frac{3}{4}$

## THE DETROIT SINGLE CONNECTION LUBRICATOR

### STYLE C

### FOR TRACTION ENGINES, PORTABLE ENGINES, STEAM PUMPS, ETC.

Can be connected to either horizontal or vertical steam pipe, or perpendicularly into the steam chest.

### DESCRIPTION

A —Oil Reservoir.  
B2—Connection for attaching to Steam Chest.  
C —Filler Plug.  
D —Water Feed Valve.  
E —Regulating Valve.  
F —Condensing Chamber.  
F1—Equalizing Tube.

G—Drain Valve.  
H—Sight-Feed Glass.  
L—Plug to Insert Glass.  
K—Connection to Steam Pipe.  
Q—Drain Valve for Sight Feed Glass.  
I —Valve in Support Arm.  
Sight-Feed Glass  $\frac{3}{4}$  x  $2\frac{1}{2}$ .

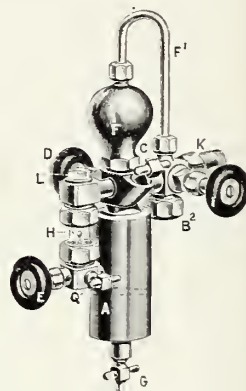


FIG. H-600

Capacity .....	$\frac{1}{4}$ Pint.	$\frac{1}{2}$ Pint.	$\frac{1}{2}$ Pint.	1 Pint.	1 Quart.
Brass Finish, each .....	\$15.00	\$17.00	\$20.00	\$28.00	\$42.00
Nickel-plated, each .....	18.00	20.00	23.00	32.00	47.00
Pipe thread .....	$\frac{1}{2}$ inch	$\frac{1}{2}$ inch	$\frac{1}{2}$ inch	$\frac{1}{2}$ inch	$\frac{1}{2}$ inch

## THE SWIFT DOUBLE CONNECTION AUTOMATIC SIGHT-FEED LUBRICATOR

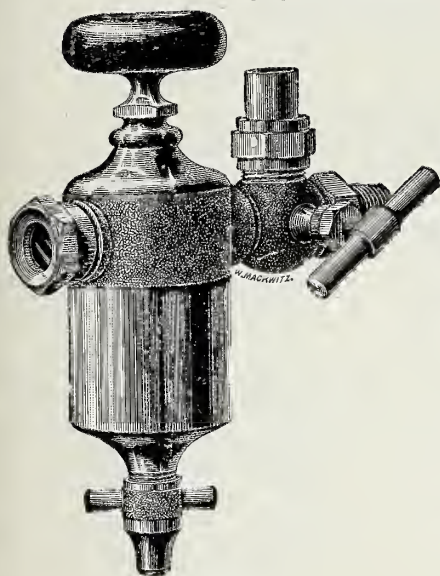


FIG. H-601

CLASS "F"

FOR STATIONARY ENGINES

PRICE LIST

Capacity-----	$\frac{1}{4}$ Pint.	$\frac{1}{3}$ Pint.	$\frac{1}{2}$ Pint.
Brass Finish ----	\$2.75	\$3.00	\$3.25
Nickel-plated ---	3.15	3.40	3.65
Pipe Thread ----	$\frac{3}{8}$ inch.	$\frac{3}{8}$ inch.	$\frac{3}{8}$ inch.
Capacity-----	1 Pint.	$1\frac{1}{2}$ Pint.	1 Quart.
Brass Finish ----	\$4.65	\$5.40	\$6.15
Nickel-plated ---	5.30	6.05	6.80
Pipe Thread ----	$\frac{1}{2}$ inch.	$\frac{1}{2}$ inch.	$\frac{1}{2}$ inch.

## THE SWIFT SINGLE CONNECTION AUTOMATIC SIGHT-FEED LUBRICATOR

CLASS F. SINGLE CONNECTION

FOR TRACTION AND PORTABLE ENGINES,

STEAM PUMPS, ETC.

Capacity-----	$\frac{1}{4}$ Pint.	$\frac{1}{3}$ Pint.	$\frac{1}{2}$ Pint.
Brass Finish ----	\$3.50	\$3.75	\$4.00
Nickel-plated ---	3.90	4.15	4.40
Pipe Thread ----	$\frac{3}{8}$ inch.	$\frac{3}{8}$ inch.	$\frac{3}{8}$ inch.
Capacity-----	1 Pint.	$1\frac{1}{2}$ Pint.	1 Quart.
Brass Finish ----	\$6.00	\$6.75	\$7.50
Nickel-plated ---	6.40	7.15	7.90
Pipe Thread ----	$\frac{1}{2}$ inch.	$\frac{1}{2}$ inch.	$\frac{1}{2}$ inch.

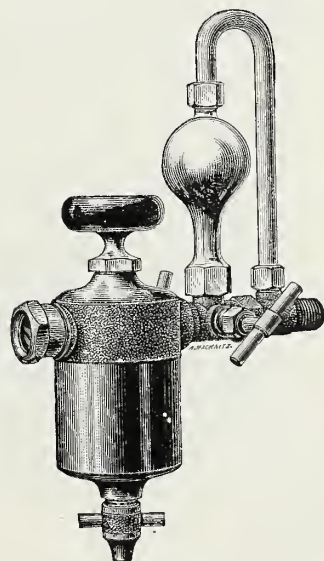


FIG. H-602

## PIPE COVERINGS

## Asbestos-Magnesia Moulded

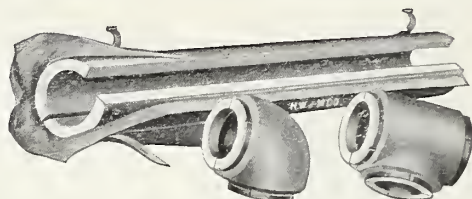


FIG. H-603

This Covering is composed of Long Fibre Asbestos, Carbonate of Magnesia and other fire-proof materials. Furnished in three feet sections and to fit all sizes of Wrought Iron Pipe  $\frac{1}{2}$  to 14 inches in diameter. For larger surface we supply Segments or Blocks.

SECTIONAL PIPE COVERINGS  
AND FITTINGS

Size, Inside Diameter, inches.	Covering per lineal ft.	El- bows, Each.	Tees, Each.	Crosses Each.	Valves Each.
$\frac{1}{2}$	.15	.16	.20	.30	.30
$\frac{3}{4}$	.16	.20	.24	.32	.36
1	.18	.20	.24	.32	.36
$1\frac{1}{4}$	.20	.20	.24	.32	.36
$1\frac{1}{2}$	.22	.20	.24	.32	.36
2	.24	.24	.28	.36	.40
$2\frac{1}{2}$	.27	.28	.32	.40	.52
3	.30	.32	.36	.44	.64
$3\frac{1}{2}$	.34	.36	.40	.52	.80
4	.38	.40	.48	.60	1.00
$4\frac{1}{2}$	.42	.48	.60	.72	1.20
5	.46	.60	.80	.96	1.40
6	.50	.80	1.00	1.28	1.68
7	.55	1.00	1.20	1.60	2.00
8	.60	1.32	1.60	2.20	2.40
9	.65	1.66	2.00	2.60	---
10	.75	2.00	2.40	3.00	---
12	1.00	---	---	---	---

SECTIONAL PIPE COVERINGS  
ONE AND ONE-HALF INCHES THICK  
WITH CANVAS AND BANDS

May 10th, 1905.

Inside Diam- eter of Pipe, inches.	Price per Lineal Foot Canvas- Jacketed.	Thickness of Covering, inches.
$\frac{1}{2}$	.22	$1\frac{1}{2}$
$\frac{3}{4}$	.24	$1\frac{1}{2}$
1	.26	$1\frac{1}{2}$
$1\frac{1}{4}$	.28	$1\frac{1}{2}$
$1\frac{1}{2}$	.30	$1\frac{1}{2}$
2	.32	$1\frac{1}{2}$
$2\frac{1}{2}$	.34	$1\frac{1}{2}$
3	.36	$1\frac{1}{2}$
$3\frac{1}{2}$	.40	$1\frac{1}{2}$
4	.45	$1\frac{1}{2}$
$4\frac{1}{2}$	.50	$1\frac{1}{2}$
5	.55	$1\frac{1}{2}$
6	.60	$1\frac{1}{2}$
7	.65	$1\frac{1}{2}$
8	.70	$1\frac{1}{2}$
9	.75	$1\frac{1}{2}$
10	.85	$1\frac{1}{2}$

In order to prevent confusion we have but one price list for our different kinds of Coverings up to and including one inch in thickness.

In order to prevent confusion we have but one price list for our one and one-half inch Coverings.

For description of additional Coverings, see pages 203 and 204.

## ASBESTOS AIR CELL COVERING

Made of corrugated asbestos paper rolled from one quarter inch plies to most any thickness required. Sizes mostly used and for what purpose, as follows:



1 inch or 4-ply  
High Pressure

$\frac{3}{4}$  inch or 3-ply  
Low Pressure

$\frac{1}{2}$  inch or 2-ply  
Hot Water

The use of this covering is growing very rapidly. It's a good non-conductor, is absolutely fire-proof, very light, easily applied and practically indestructible.

FIG. H-604

## LOW PRESSURE FELT COVERING THREE-QUARTER INCH THICK

For low-pressure steam work, and is lined inside with asbestos paper. Its main composition is wool felt, which is the best non-conductor known for low pressure heating work.

This Covering is also a great favorite with steam fitters, and has been used for a great deal of prominent work—where first quality and not the lowest price was the thing considered.

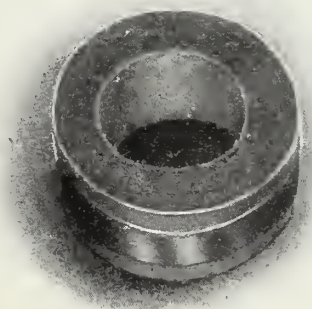


FIG. H-605

For Prices of the above, see page 202

## HOT WATER FELT COVERING

ONE-HALF INCH THICK

Same material as the THREE-QUARTER INCH LOW PRESSURE FELT COVERING.

Fig. H-605, shown on Page 203, and Lined in the same way.

Especially intended for HOT WATER.

## COLD WATER PIPE COVERING

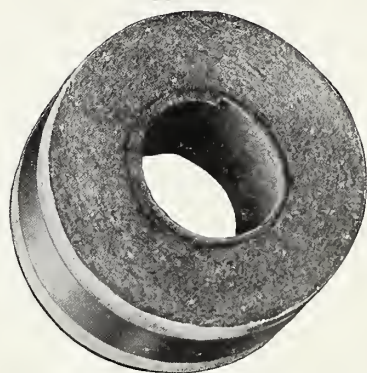


FIG. H-606

This Covering is made from the best Wool Felt and lined with tarred paper.

This Covering has stood the most severe tests—tests which completely put competitive brands out of commission.

With this Covering we furnish wool and canvas for fittings, as these make a neater and tighter job and make freezing of pipes less likely than when Sectional Fittings are used.

## SWEAT-PROOF COVERING

Only one-half inch thick—but “does the business” perfectly.

Use this Covering on cold water pipes in warm rooms to prevent them from sweating and dripping.

The composition of this Covering is Wool Felt, lined with tarred paper.

This Covering is made by a special process, which prevents quick deterioration by reason of dampness.

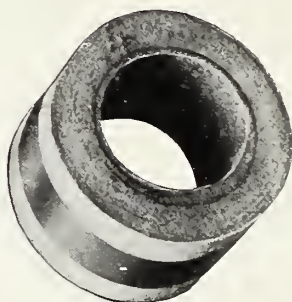


FIG. H-607

For Prices of the above, see page 202.



## ASBESTOS SHEET MILL-BOARD

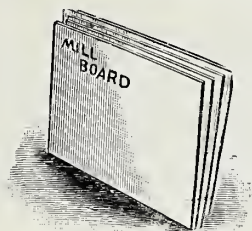


FIG. H-608

Our Mill-Board is fire and acid-proof, and is valuable for packing joints in contact with fire and oils. In sheets 40 x 40 inches, from  $\frac{1}{16}$  to  $\frac{3}{4}$  inch thick.

## APPROXIMATE WEIGHT PER SHEET 40 X 40 INCHES

$\frac{1}{8}$ inch thick	7½ to 8 lbs.	$\frac{3}{8}$ inch thick	23 to 25 lbs.
$\frac{1}{4}$ inch thick	13½ to 14½ lbs.	$\frac{1}{2}$ inch thick	27 to 30 lbs.
Per pound			.10

## ASBESTOS PAPER

IN ROLLS

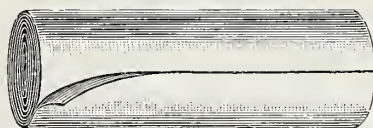


FIG. H-609

Is made 36 inches wide; weighs about 10 lbs. to the 100 square feet, and contains from 800 to 1000 square feet in a roll.

Per pound ..... .08

## ASBESTOS CEMENT



FIG. H-610

## MINERAL WOOL

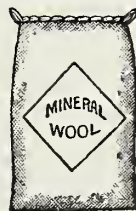


FIG. H-611

In bags, containing about 100 lbs.

Per pound ..... .03

In bags, containing from 50 to 75 lbs.

Per pound ..... .03

Asbestos Cement and Mineral Wool are used for covering heating boilers, pipes, fittings, etc. One hundred pounds of asbestos cement will cover about 25 square feet 1 inch thick.

## RAINBOW PACKING

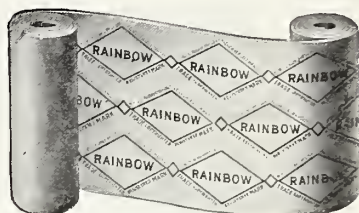


FIG. H-612

 $\frac{1}{32}$  to  $\frac{1}{2}$  inch thick.

Per pound ..... \$1.00

## JENKINS' STANDARD PACKING



FIG. H-613

 $\frac{1}{32}$  to  $\frac{1}{2}$  inch thick.

Per pound ..... .80

## STRONG'S OIL PROOF SHEET PACKING



FIG. H-614

Acid, Oil, Gas, Salt or Fresh Water will not hurt it—neither will Ammonia or High Pressure Steam.

It is impervious to the action of any such substance. It is the lightest Sheet Packing on the market; it can be placed in a joint and not stick or vulcanize.

$\frac{1}{64}$ inch thick.	1	pound per square yard—Per pound	\$2.00
$\frac{1}{32}$ inch thick.	$2\frac{1}{8}$	pounds per square yard—Per pound	1.50
$\frac{1}{16}$ inch thick.	$4\frac{1}{8}$	pounds per square yard—Per pound	1.50
$\frac{1}{8}$ inch thick.	$8\frac{1}{4}$	pounds per square yard—Per pound	1.50

All other thicknesses at same price.

**USUDURIAN SHEET PACKING****FIG. H-615**

Is an unvulcanized, self-vulcanizing rubber packing, made from the best possible materials.

It packs any kind of steam, hot air or hot water joints; it is a non-conductor and lasts longer than any other packing in use. It is particularly adapted to packing steam chest covers and all super-heated steam joints, as it will not burn or char.

Per pound..... .80

**KEARSARGE ASBESTO-METALLIC SHEET PACKING****FIG. H-616**

Kearsarge Asbesto-Metallic Cloth or Sheet Packing is made from pure Asbestos Yarn and strands of fine Brass Wire, firmly twisted and woven together, and coated with Special Packing Compound. It is flexible, elastic and very strong.

It adapts itself to all uneven surfaces and makes a superior flat packing for high-pressure steam or air pipe joints.

We furnish this packing in one-ply as above; and two and three-ply with or without wire gauze lamination as desired. This is the strongest and most effective sheet-packing in use.

Per pound..... \$1.25

**MOBILENE SHEET PACKING**

An Asbestos Flat Packing designed for joints on the cylinder heads of gas and gasoline engines. Especially valuable for use on motor vehicles. It is durable and flexible and possesses great strength.

In sheets 40 inches square or rolls 40 inches wide. Weight about  $4\frac{1}{2}$  pounds per square yard.

Per pound..... \$1.50

## VULCABESTON PACKING

Vulcabeston Packing is composed of Asbestos with its heat proof and indestructible qualities combined with vulcanizable gums, which render it tough, pliable and yielding. It can be moulded into any shaped Gasket, Packing or Special Forms. It will not shrink or expand. On account of its permanent resistance to heat and immunity from injury by the action of acids, gases, ammonia, alkalis, etc., it is more durable and effective than any rubber or other organic packing offered for similar purposes. It is furnished in sheets unless otherwise specified, and in rolls when so ordered.

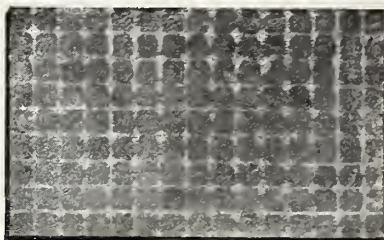


FIG. H-617

### SHEETS 35 INCHES BY 35 INCHES.

$\frac{3}{8}$ inch, per sheet	\$2.40
$\frac{1}{8}$ inch, per sheet	3.00
$\frac{1}{8}$ inch, per sheet	4.60
$\frac{3}{16}$ inch, per sheet	7.00
$\frac{1}{4}$ inch, per sheet	8.00

### ROLLS 35 INCHES WIDE, 10 OR 20 YARDS.

$\frac{3}{8}$ inch, per lineal yard	\$2.40
$\frac{1}{8}$ inch, per lineal yard	3.00
$\frac{1}{8}$ inch, per lineal yard	4.60
$\frac{3}{16}$ inch, per lineal yard	7.00
$\frac{1}{4}$ inch, per lineal yard	8.00

## SHEET PACKING

### RUBBER

CLOTH ON ONE OR BOTH SIDES OR INSERTED

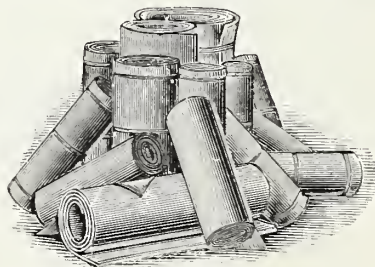


FIG. H-618

Thickness, inches	$\frac{3}{4}$	$\frac{3}{2}$	$\frac{1}{16}$	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$
1 Ply, per pound	.70	.65	.60	.55	--	--	--
2 Ply, per pound	--	--	.63	.58	.55	--	--
3 Ply, per pound	--	--	.66	.61	.58	.55	--
4 Ply, per pound	--	--	--	--	.61	.58	.55

There is one ply of Cloth to every  $\frac{1}{16}$  inch in thickness. Each Cloth, whether inserted or on outside, to count as one ply. Three cents additional will be charged for each extra ply of Cloth. Made in Sheets 36 inches wide and any length desired.

### PURE RUBBER

Made in Sheets 36 inches wide and of any thickness or length desired.

Per pound	\$1.40
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## RING PACKINGS

SECTIONAL



FIG. H-619

Per pound.....\$1.20

ELASTIC



FIG. H-620

Per pound.....\$1.20

SPIRAL



FIG. H-621

Per pound.....\$1.20

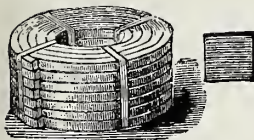


FIG. H-622

### SQUARE DUCK PISTON PACKING

FIG. H-622

Made in the following sizes:  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $\frac{7}{8}$ , 1,  $1\frac{1}{8}$ ,  $1\frac{1}{4}$  and  $1\frac{1}{2}$  inches.

Per pound......85

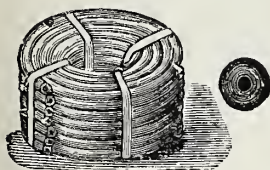


FIG. H-623

### ROUND PISTON PACKING—WITH RUBBER CORE

FIG. H-623

Made in the following sizes:  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $\frac{7}{8}$ , 1,  $1\frac{1}{8}$ ,  $1\frac{1}{4}$  and  $1\frac{1}{2}$  inches.

Per pound......85

## EUREKA PACKING



FIG. H-624

Per pound......60

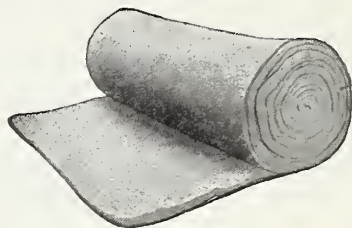
## HEMP PACKING



FIG. H-625

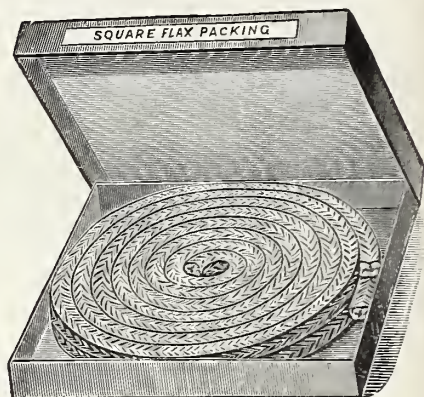
Italian, per pound......25



**HAIR FELTS****FIG. H-626**

In rolls 6 feet wide and 50 feet long,  
containing 300 square feet.

$\frac{1}{4}$ inch thick, per square foot	...	.03 $\frac{1}{2}$
$\frac{1}{2}$ inch thick, per square foot	...	.04 $\frac{1}{4}$
$\frac{3}{4}$ inch thick, per square foot	...	.05 $\frac{1}{4}$
1 inch thick, per square foot	...	.06
$1\frac{1}{2}$ inches thick, per square foot	...	.09
2 inches thick, per square foot	...	.12

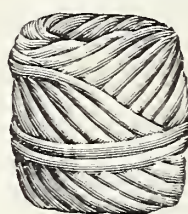
**SQUARE FLAX PACKING****FIG. H-627**

Per pound..... .50

**ASBESTOS WICK  
PACKING****FIG. H-628**

$\frac{1}{4}$ ,  $\frac{1}{2}$  and 1 pound balls.

Per pound..... .45

**CANDLE WICK  
PACKING****FIG. H-629**

Per pound..... .45

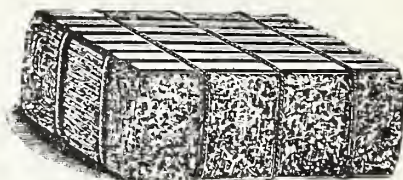
**OAKUM****FIG. H-630****COTTON WASTE****FIG. H-631**

Fig. H-630—Per pound	.....	.08
Fig. H-630—Per 50 pound bale	.....	\$3.00
Fig. H-631—White, per pound	.....	.20
Fig. H-631—Colored, per pound	.....	.15

## CORRUGATED SOLID COPPER GASKETS

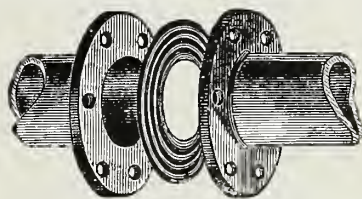


FIG. H-632

Size, inches.	Each.	Size, inches.	Each.	Size, inches.	Each.	Size, inches.	Each.	Size, inches.	Each.
$\frac{1}{2}$	.004	$4\frac{7}{8}$	.37	$13\frac{1}{2}$	\$2.86	$23\frac{1}{4}$	\$8.49	33	\$17.11
$\frac{9}{16}$	.005	5	.39	$13\frac{3}{4}$	2.97	$23\frac{1}{2}$	8.67	$33\frac{1}{4}$	17.37
$\frac{5}{8}$	.006	$5\frac{1}{8}$	.41	14	3.08	$23\frac{3}{4}$	8.86	$33\frac{1}{2}$	17.63
$\frac{11}{16}$	.007	$5\frac{1}{4}$	.43	$14\frac{1}{4}$	3.19	24	9.05	$33\frac{3}{4}$	17.89
$\frac{3}{4}$	.009	$5\frac{3}{8}$	.45	$14\frac{1}{2}$	3.30	$24\frac{1}{4}$	9.24	34	18.16
$\frac{13}{16}$	.01	$5\frac{1}{2}$	.48	$14\frac{3}{4}$	3.42	$24\frac{1}{2}$	9.43	$34\frac{1}{4}$	18.43
$\frac{15}{16}$	.012	$5\frac{5}{8}$	.50	15	3.53	$24\frac{3}{4}$	9.62	$34\frac{1}{2}$	18.70
1	.014	$5\frac{3}{4}$	.52	$15\frac{1}{4}$	3.65	25	9.82	$34\frac{3}{4}$	18.97
$1\frac{1}{8}$	.016	$5\frac{7}{8}$	.54	$15\frac{1}{2}$	3.77	$25\frac{1}{4}$	10.01	35	19.24
$1\frac{1}{4}$	.02	6	.57	$15\frac{3}{4}$	3.90	$25\frac{1}{2}$	10.21	$35\frac{1}{4}$	19.52
$1\frac{1}{2}$	.025	$6\frac{1}{4}$	.61	16	4.02	$25\frac{3}{4}$	10.42	$35\frac{1}{2}$	19.80
$1\frac{3}{4}$	.03	$6\frac{1}{2}$	.66	$16\frac{1}{4}$	4.15	26	10.62	$35\frac{3}{4}$	20.08
$1\frac{5}{8}$	.035	$6\frac{3}{4}$	.72	$16\frac{1}{2}$	4.28	$26\frac{1}{4}$	10.82	36	20.36
$1\frac{7}{8}$	.04	7	.77	$16\frac{3}{4}$	4.41	$26\frac{1}{2}$	11.03	$36\frac{1}{4}$	20.64
2	.05	$7\frac{1}{4}$	.83	17	4.54	$26\frac{3}{4}$	11.24	$36\frac{1}{2}$	20.93
$2\frac{1}{8}$	.055	$7\frac{1}{2}$	.88	$17\frac{1}{4}$	4.67	27	11.45	$36\frac{3}{4}$	21.21
$2\frac{1}{4}$	.06	$7\frac{3}{4}$	.94	$17\frac{1}{2}$	4.81	$27\frac{1}{4}$	11.66	37	21.50
$2\frac{1}{2}$	.07	8	1.01	$17\frac{3}{4}$	4.95	$27\frac{1}{2}$	11.88	$37\frac{1}{4}$	21.80
$2\frac{3}{4}$	.08	$8\frac{1}{4}$	1.07	18	5.09	$27\frac{3}{4}$	12.10	$37\frac{1}{2}$	22.09
$2\frac{5}{8}$	.09	$8\frac{1}{2}$	1.13	$18\frac{1}{4}$	5.23	28	12.32	$37\frac{3}{4}$	22.30
$2\frac{7}{8}$	.10	$8\frac{3}{4}$	1.20	$18\frac{1}{2}$	5.38	$28\frac{1}{4}$	12.54	38	22.68
3	.11	9	1.27	$18\frac{3}{4}$	5.52	$28\frac{1}{2}$	12.76	$38\frac{1}{4}$	22.98
$3\frac{1}{8}$	.12	$9\frac{1}{4}$	1.34	19	5.67	$28\frac{3}{4}$	12.98	$38\frac{1}{2}$	23.28
$3\frac{1}{4}$	.13	$9\frac{1}{2}$	1.42	$19\frac{1}{4}$	5.82	29	13.21	$38\frac{3}{4}$	23.59
$3\frac{1}{2}$	.14	$9\frac{3}{4}$	1.49	$19\frac{1}{2}$	5.97	$29\frac{1}{4}$	13.44	39	23.89
$3\frac{3}{8}$	.15	10	1.57	$19\frac{3}{4}$	6.13	$29\frac{1}{2}$	13.67	$39\frac{1}{4}$	24.20
$3\frac{1}{2}$	.17	$10\frac{1}{4}$	1.65	20	6.28	$29\frac{3}{4}$	13.90	$39\frac{1}{2}$	24.51
$3\frac{3}{4}$	.18	$10\frac{1}{2}$	1.73	$20\frac{1}{4}$	6.44	30	14.14	$39\frac{3}{4}$	24.82
$3\frac{5}{8}$	.19	$10\frac{3}{4}$	1.82	$20\frac{1}{2}$	6.60	$30\frac{1}{4}$	14.37	40	25.13
$3\frac{7}{8}$	.21	11	1.90	$20\frac{3}{4}$	6.76	$30\frac{1}{2}$	14.61	$40\frac{1}{4}$	25.45
$4$	.22	$11\frac{1}{4}$	1.99	21	6.93	$30\frac{3}{4}$	14.85	$40\frac{1}{2}$	25.77
$4\frac{1}{8}$	.24	$11\frac{1}{2}$	2.08	$21\frac{1}{4}$	7.09	31	15.10	$40\frac{3}{4}$	26.08
$4\frac{1}{4}$	.25	$11\frac{3}{4}$	2.17	$21\frac{1}{2}$	7.26	$31\frac{1}{4}$	15.34	41	26.41
$4\frac{1}{2}$	.27	12	2.26	$21\frac{3}{4}$	7.43	$31\frac{1}{2}$	15.59	$41\frac{1}{4}$	26.73
$4\frac{3}{8}$	.28	$12\frac{1}{4}$	2.36	22	7.60	$31\frac{3}{4}$	15.83	$41\frac{1}{2}$	27.05
$4\frac{1}{2}$	.30	$12\frac{1}{2}$	2.45	$22\frac{1}{4}$	7.78	32	16.08	$41\frac{3}{4}$	27.38
$4\frac{5}{8}$	.32	$12\frac{3}{4}$	2.55	$22\frac{1}{2}$	7.95	$32\frac{1}{4}$	16.34	-----	-----
$4\frac{3}{4}$	.34	13	2.65	$22\frac{3}{4}$	8.13	$32\frac{1}{2}$	16.59	-----	-----
$4\frac{7}{8}$	.35	$13\frac{1}{4}$	2.76	23	8.31	$32\frac{3}{4}$	16.85	-----	-----

Prices given are for solid Gaskets; the difference between the price of outside and inside diameters will be the price of the required cut Gasket. Thus, the list of an 8-inch solid Gasket is 1.01; the list of a 6-inch is .57; therefore, the list on a 6x8-inch cut Gasket would be .44 ( $1.01 - .57 = .44$ ).

Prices of elliptical and rectangular Gaskets, 2 cents per square inch of actual surface.

# GASKETS AND RINGS



FIG. H-633

## CLOTH INSERTION

Regular shapes and sizes carried in stock.

Hand-hole Gaskets,  $\frac{3}{8}$  inch. Man-hole Gaskets,  $\frac{1}{4}$  inch.

Per pound ..... .70

CAUTION.—Care should be taken in ordering Gaskets and Rings to specify shape, internal and external diameter, as well as flange.

## ECLIPSE SECTIONAL RAINBOW GASKETS

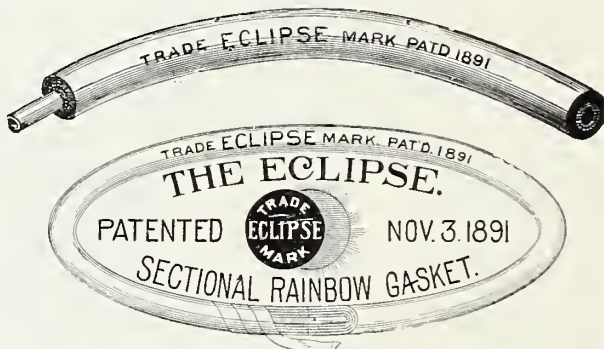


FIG. H-634

Made  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$  and  $\frac{3}{4}$  inch diameter.

Eclipse Gasket Tubing, per pound ..... \$1.00



FIG. H-635

Made  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$  and  $\frac{3}{4}$  inch diameter.

Jenkins Gasket Tubing, per pound ..... \$1.00

## RUBBER BELTING

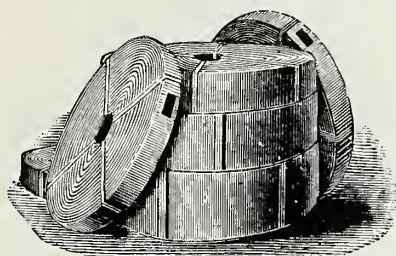


FIG. H-636

## REGULAR LIST—(ALL BRANDS)

In.	2-Ply	3-Ply	4-Ply	5-Ply	6-Ply	7-Ply	8-Ply	In.	2-Ply	3-Ply	4-Ply	5-Ply	6-Ply	7-Ply	8-Ply
1	.07	.09	.11					14	\$1.08	\$1.28	\$1.54	\$1.92	\$2.31	\$2.69	\$3.08
1½	.09	.11	.13					15	1.16	1.38	1.66	2.07	2.49	2.90	3.32
1½	.11	.13	.15	.19				16	1.25	1.50	1.78	2.22	2.67	3.11	3.56
1¾	.13	.15	.17	.21				18	1.41	1.70	2.02	2.52	3.03	3.53	4.04
2	.15	.17	.21	.26	.31			20	1.58	1.90	2.26	2.82	3.39	3.95	4.52
2½	.18	.22	.26	.32	.39			22	1.76	2.12	2.52	3.15	3.78	4.41	5.04
3	.22	.26	.31	.38	.46			24	1.96	2.36	2.80	3.50	4.20	4.90	5.60
3½	.26	.30	.37	.46	.55			26	2.16	2.60	3.08	3.85	4.62	5.39	6.16
4	.30	.34	.42	.52	.63	.73		28	2.36	2.84	3.36	4.20	5.04	5.88	6.72
4½	.33	.39	.47	.58	.70	.82		30	----	----	3.64	4.55	5.46	6.37	7.28
5	.36	.43	.52	.65	.78	.91		32	----	----	3.92	4.90	5.88	6.86	7.84
6	.43	.52	.62	.77	.93	1.08	\$1.24	34	----	----	4.20	5.25	6.30	7.35	8.40
7	.51	.60	.73	.91	1.09	1.27	1.46	36	----	----	4.48	5.60	6.72	7.84	8.96
8	.59	.70	.84	1.05	1.26	1.47	1.68	38	----	----	4.76	5.95	7.14	8.33	9.52
9	.67	.80	.95	1.18	1.42	1.66	1.90	40	----	----	5.04	6.30	7.56	8.82	10.08
10	.75	.90	1.07	1.33	1.60	1.87	2.14	42	----	----	5.32	6.65	7.98	9.31	10.64
11	.83	1.00	1.18	1.47	1.77	2.06	2.36	44	----	----	5.60	7.00	8.40	9.80	11.20
12	.91	1.08	1.30	1.62	1.95	2.27	2.60	46	----	----	5.88	7.35	8.82	10.29	11.76
13	1.00	1.18	1.42	1.77	2.13	2.48	2.84	48	----	----	6.16	7.70	9.24	10.78	12.32

## ENDLESS BELTS

A charge will be made for the additional belting required for the splice. The minimum charge will be for three feet. All of our belts are made endless by a special process and they will not separate at the splice.

In running belts protect them as much as possible from contact with grease or animal oil.



## LEATHER BELTING

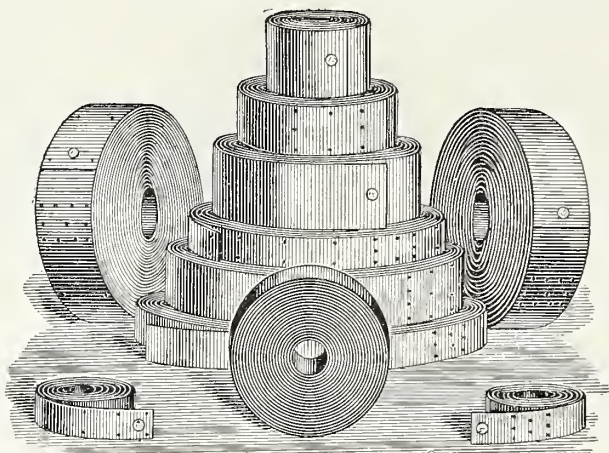


FIG. H-637

 REVISED PRICE LIST, NOVEMBER 21ST, 1906  
 PRICES OF SINGLE BELTS, PER RUNNING FOOT

$\frac{1}{2}$ inch	.12	$3\frac{3}{4}$ inch	.90	15 inch	\$3.60	30 inch	\$7.20
$\frac{5}{8}$ "	.15	4 "	.96	16 "	3.84	32 "	7.68
$\frac{3}{4}$ "	.18	$4\frac{1}{2}$ "	1.08	17 "	4.08	34 "	8.16
$\frac{7}{8}$ "	.21	5 "	1.20	18 "	4.32	36 "	8.64
1 "	.24	$5\frac{1}{2}$ "	1.32	19 "	4.56	38 "	9.12
$1\frac{1}{4}$ "	.30	6 "	1.44	20 "	4.80	40 "	9.60
$1\frac{1}{2}$ "	.36	$6\frac{1}{2}$ "	1.56	21 "	5.04	42 "	10.08
$1\frac{3}{4}$ "	.42	7 "	1.68	22 "	5.28	44 "	10.56
2 "	.48	8 "	1.92	23 "	5.52	46 "	11.04
$2\frac{1}{4}$ "	.54	9 "	2.16	24 "	5.76	48 "	11.52
$2\frac{1}{2}$ "	.60	10 "	2.40	25 "	6.00	50 "	12.00
$2\frac{3}{4}$ "	.66	11 "	2.64	26 "	6.24	52 "	12.48
3 "	.72	12 "	2.88	27 "	6.48	54 "	12.96
$3\frac{1}{4}$ "	.78	13 "	3.12	28 "	6.72	56 "	13.44
$3\frac{1}{2}$ "	.84	14 "	3.36	29 "	6.96	60 "	14.40

Double Belts, twice the price of single. Intermediate widths at proportionate prices. Extra Heavy Belts, prices on application.

## Solid and Twist Leather Belting



FIG. H-638



FIG. H-639

Size, inches	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
Fig. H-638—Solid, per foot	.05	.07	.10	.14	.18	.22	.30	.36	.46	.72
Fig. H-639—Twist, per foot	.06	.10	.14	.18	.22	.30	.36	.46	.60	.72



## GANDY BELTING



FIG. H-640

4 Ply Equal to Single Leather.		5 Ply		6 Ply Equal Lt. Double Leather.		8 Ply Equal Heavy Double Leather.		10 Ply	
	per ft.		per ft.		per ft.		per ft.		per ft.
1 inch,	.10	2 inch,	.25	2 inch,	.29	3 inch,	.57	12 inch,	\$2.82
1 1/4 "	.13	2 1/2 "	.31	2 1/2 "	.36	4 "	.76	14 "	3.45
1 1/2 "	.15	3 "	.38	3 "	.44	5 "	.95	15 "	3.71
1 3/4 "	.18	3 1/2 "	.44	3 1/2 "	.51	6 "	1.14	16 "	3.95
2 "	.20	4 "	.50	4 "	.58	7 "	1.33	18 "	4.44
2 1/4 "	.23	4 1/2 "	.56	4 1/2 "	.65	8 "	1.52	20 "	4.94
2 1/2 "	.25	5 "	.63	5 "	.73	9 "	1.71	22 "	5.43
2 3/4 "	.28	6 "	.75	6 "	.87	10 "	1.90	24 "	5.92
3 "	.30	7 "	.88	7 "	1.02	11 "	2.09	26 "	6.72
3 1/2 "	.35	8 "	1.00	8 "	1.16	12 "	2.28	28 "	7.24
4 "	.40	9 "	1.13	9 "	1.31	13 "	2.60	30 "	7.76
4 1/2 "	.45	10 "	1.25	10 "	1.45	14 "	2.79	32 "	8.27
5 "	.50	11 "	1.38	11 "	1.60	15 "	3.00	34 "	8.79
6 "	.60	12 "	1.50	12 "	1.74	16 "	3.19	36 "	9.31
7 "	.70	13 "	1.71	13 "	1.99	18 "	3.59	38 "	9.82
8 "	.80	14 "	1.84	14 "	2.13	20 "	3.99	40 "	10.34
9 "	.90	15 "	1.98	15 "	2.29	22 "	4.39	42 "	11.84
10 "	1.00	16 "	2.10	16 "	2.44	24 "	4.79	44 "	12.41
11 "	1.10	18 "	2.36	18 "	2.74	26 "	5.43	48 "	13.54
12 "	1.20	20 "	2.63	20 "	3.05	28 "	5.85	50 "	14.10
13 "	1.37	22 "	2.89	22 "	3.35	30 "	6.27	52 "	14.66
14 "	1.47	24 "	3.15	24 "	3.65	32 "	6.69	54 "	15.23
15 "	1.58			26 "	4.15	36 "	7.52	56 "	15.79
16 "	1.68			28 "	4.47	40 "	8.36	60 "	16.92
18 "	1.89			30 "	4.79	48 "	10.94		

## WHITE COTTON BELTING

Width, inches	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6	7
2 Ply, per foot	.04	.05	.06	.06 1/2	.07	.08	.09	.11	.13	.17	.19
3 Ply, per foot	--	.06	.08	.10	.12	.14	.15	.17	.19	.23	.27
4 Ply, per foot	--	--	.12	.14	.16	.18	.21	.24	.26	.30	.34
Width, inches	8	9	10	12	14	16	18	20	22	24	
2 Ply, per foot	.21	.23	.26	.33	.41	.49	.57	.61	.65	.69	
3 Ply, per foot	.31	.35	.39	.48	.60	.72	.82	.90	1.00	1.10	
4 Ply, per foot	.38	.44	.50	.60	.75	.90	1.00	1.15	1.35	1.55	

Endless Thresher Belts, Stitched Canvas, in assorted lengths, 6, 7 and 8 inches wide. Prices on application.



FIG. H-641

## LACE LEATHER

FIG. H-641

Rawhide, per square foot ..... .30

## CUT LEATHER LACING



FIG. H-642

Width, inches .....	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Rawhide, per 100 feet .....	\$1.25	1.50	1.75	2.00	2.25	3.00	3.75

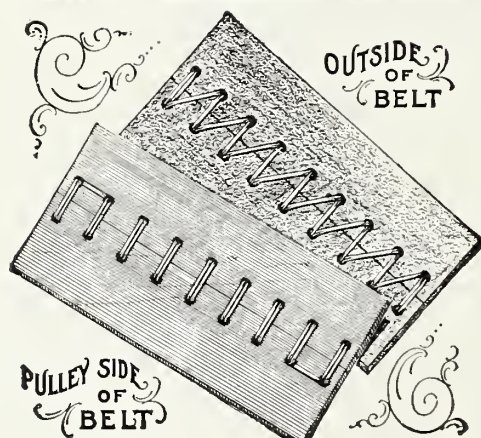


FIG. H-643

## WIRE BELT LACING

FIG. H-643

No. 0 Size for Single Belts, 3 inches and under.

No. 1 Size for Single Belts, 3 inches and over.

No. 2 Size for all Double Belts, 12 inches and under.

No. 3 Size for all Double Belts, over 12 inches.

Per 100 feet ..... \$2.00

## "JONES" BELT HOOK

NO. 7



FIG. H-644

No. 16, per 1000 .....	\$2.00	No. 6, per 1000 .....	\$8.50
No. 15, per 1000 .....	2.00	No. 5, per 1000 .....	11.00
No. 14, per 1000 .....	2.40	No. 4, per 1000 .....	14.00
No. 13, per 1000 .....	2.60	No. 3, per 1000 .....	16.00
No. 12, per 1000 .....	2.80	No. 2, per 1000 .....	20.00
No. 11, per 1000 .....	3.00	No. 1, per 1000 .....	30.00
No. 10, per 1000 .....	3.50	$2\frac{1}{2}$ inch, per 1000 .....	50.00
No. 9, per 1000 .....	4.00	3 inch, per 1000 .....	60.00
No. 8, per 1000 .....	5.00	$3\frac{1}{2}$ inch, per 1000 .....	70.00
No. 7, per 1000 .....	6.00	4 inch, per 1000 .....	80.00

## OILS

## MACHINERY AND ENGINE OILS

Best Quality, per gallon..... .40

## CYLINDER OIL

Best Quality, per gallon..... .60

STAINLESS SPINDLE OIL, per gallon..... .60

This oil is especially adapted for Textile Machinery.

W. S. PRIME LARD OIL, per gallon..... \$1.25

This oil is especially adapted for cutting and threading pipe and for screw cutting.



FIG. H-645

## ALBANY GREASE

Albany Grease is made in five regular numbers.

- No. 0 is very soft, being used in extreme cold weather and on exposed journals.
- No. 1 is harder than No. 0 and is used on ordinary journals in cold weather, or in very cool or slow-running journals, also elevator sides.
- No. 2 is harder than No. 1, and is the grade ordinarily used in moderate and warm weather and general shafting.
- No. 3 is adapted to the use of all stationary, marine and tug-boat engines; also shafting in warm weather, dynamos, general electrical and high-speed machinery.
- No. X is a grade of extra hardness, which will lubricate journals with entire satisfaction, when no oil or lubricant of any other kind would work.
- Note—All the grades and numbers of Albany Grease are of the same quality. The only difference is in the consistency being made applicable to any climate or condition of circumstance.



## FLAKE GRAPHITE

Perfect Lubricant.

5 lb. cans, per lb. .... .25

FIG. H-646



## RUBBER HOSE

### RUBBER GARDEN, HYDRANT OR CONDUCTING HOSE

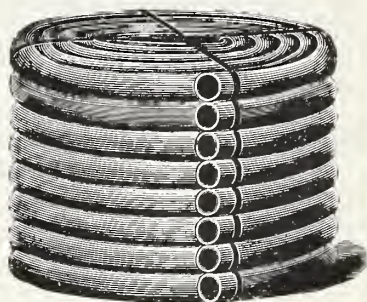


FIG. H-647

### WIRE WOUND HOSE

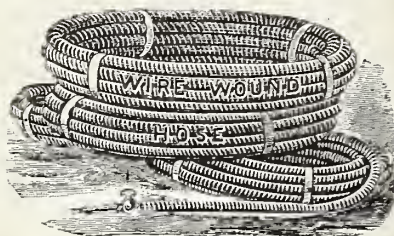


FIG. H-648

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	4
2 Ply, per foot	.20	.25	.33	.42	.50	.58	.66	.75	.83	.92	.99	1.32
3 Ply, per foot	.25	.30	.40	.50	.60	.70	.80	.90	1.00	1.10	1.20	1.60
4 Ply, per foot	.30	.37	.50	.62	.75	.87	1.00	1.12	1.25	1.37	1.50	2.00

### STANDARD STEAM HOSE, STANDARD AND IMPERIAL BREWERS' HOSE, AIR BRAKE HOSE

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3
3 Ply, per foot	.43	.51	.67	.85	1.02	1.18	1.34	1.66	2.00
4 Ply, per foot	.51	.67	.83	1.04	1.25	1.45	1.66	2.08	2.80
5 Ply, per foot	.63	.83	1.03	1.30	1.56	1.81	2.07	2.60	3.50
6 Ply, per foot	.76	1.00	1.24	1.56	1.87	2.17	2.49	3.12	4.20

Steam Hose, Marlin Wound, 10 per cent. advance on net cost.

### WINDING HOSE WITH WIRE

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
3 Ply, per foot	.03	.04	.05	.07	.08	.10	.12
4 Ply, per foot	.04	.05	.07	.08	.09	.11	.13

### SUCTION HOSE ON STEEL WIRE

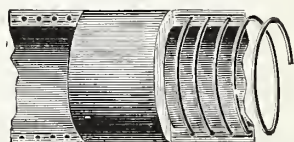


FIG. H-649

### HARD RUBBER SUCTION HOSE

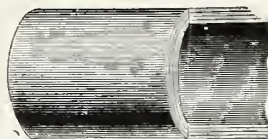


FIG. H-650

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Per foot	.70	.90	1.15	1.50	2.30	3.10	4.00	4.90
Smooth Bore, per foot	1.00	1.30	1.65	1.95	2.60	3.50	4.50	5.50

Size, inches	4	5	6	8	10	12
Per foot	\$5.80	7.60	9.50	15.00	20.00	25.00
Smooth Bore, per foot	6.50	8.50	10.50	16.50	22.50	27.50

### HARD RUBBER SUCTION HOSE

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Per foot	.55	.65	.75	.93	1.13	1.50	1.88

## HOSE GOODS

COTTON GARDEN HOSE  
RUBBER LINED

FIG. H-651

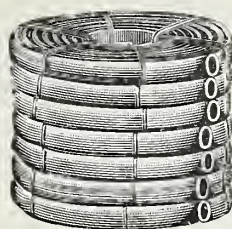
COTTON MILL HOSE  
RUBBER LINED

FIG. H-652

## COTTON GARDEN HOSE

Size, inches	1/2	3/4	1
Per foot	.20	.25	.35

## COTTON MILL HOSE—RUBBER LINED

Size, inches	1	1 1/4	1 1/2	2	2 1/4	2 1/2	3
Per foot	.35	.45	.50	.60	.70	.70	1.00

## UNDERWRITERS LINEN HOSE

Size, inches	3/4	1	1 1/4	1 1/2	2	2 1/4	2 1/2
Plain Unlined, per foot	.18	.20	.22	.25	.30	.33	.35
Rubber Lined, per foot	--	.50	.60	.70	.80	--	.90

## FIRE HOSE

Rubber and Single and Double Jacket Cotton Fire Hose, suitable for any pressure required and fully guaranteed.

Samples and prices on application.

## Rubber Tubing

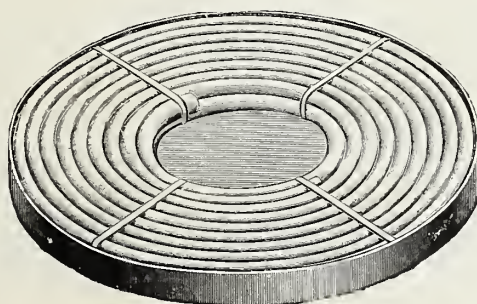


FIG. H-653

Size, inches	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	1
Pure, per foot	.08	.12	.16	.18	.20	.25	.30	.35	.45
Cloth Insertion, per foot	.10	.14	.18	.20	.23	.28	.33	.38	.50



## HOSE GOODS

## Hose Nozzles

"UNDERWRITERS"

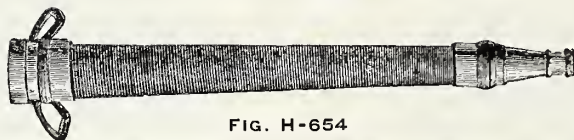


FIG. H-654

Size, inches	2	2½	2½	2½
Length, inches	20	24	30	36
Wound and Painted, each	\$9.00	11.00	12.00	15.00
Plain Brass, each	7.50	9.50	11.00	13.50
Wound and Painted without Handles, each	6.50	8.50	10.00	12.50
Rubber Tube, Swivel Handles, each	---	---	15.00	18.00
Leather Tubes, Swivel Handles, each	---	---	---	18.00

## PLAIN



FIG. H-655

Size, inches	¾	1	1¼	1½	2	2½
Length, inches	8	8	12	12	12	15
Per dozen	\$7.00	9.00	18.00	22.00	34.00	65.00

## WITH SCREW TIP



FIG. H-656

Size, inches	¾	¾	1	1	1¼	1¼	1½	1½	2	2	2½	2½
Length, inches	8	12	8	12	12	15	12	15	12	20	15	24
Per dozen	\$8.00	10.00	10.00	12.00	20.00	24.00	25.00	30.00	38.00	50.00	75.00	100.00

## WITH COCK

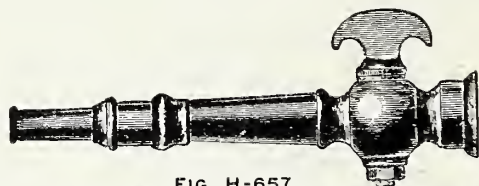


FIG. H-657

Size, inches	¾	¾	1	1	1¼	1¼	1¼	1½	2	2	2½	2½
Length, inches	8	12	8	12	12	15	20	20	12	20	24	24
Per dozen	\$13.00	18.00	15.00	20.00	40.00	45.00	55.00	80.00	80.00	110.00	200.00	200.00

## HOSE GOODS

## Hose Nozzles

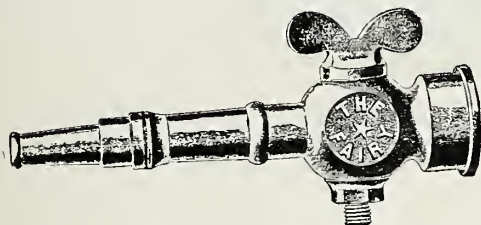


FIG. H-658

**"FAIRY"**THROWS SOLID STREAM OR  
SPRAY

Size, inches	----- $\frac{3}{4}$	1
Per dozen	----- \$18.00	30.00

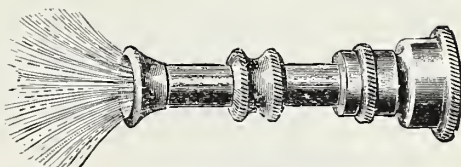
**"GEM" SPRAY**THROWS SOLID STREAM OR  
SPRAY

FIG. H-659

Size, inches	----- $\frac{3}{4}$	1
Per dozen	----- \$10.00	15.00

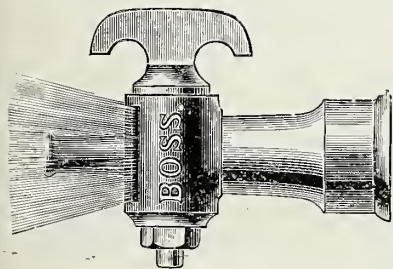


FIG. H-660

**"BOSS"**THROWS SOLID STREAM OR  
SPRAY

Size, inches	----- $\frac{3}{4}$	1
Per dozen	----- \$15.00	18.00

## HOSE GOODS

### REGULAR HOSE COUPLING

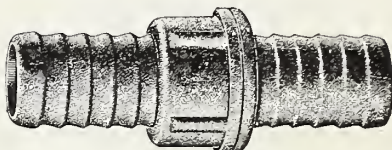


FIG. H-661

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Per doz	\$2.40	2.40	4.40	10.00	14.00	24.00	48.00	76.00
Iron Pipe Thread, per doz	2.65	2.65	4.65	10.50	15.00	26.00	50.00	79.00
Female Half Hose-Pipe Thread, per doz	1.80	1.80	3.00	7.20	9.60	16.20	---	---
Female Half Iron-Pipe Thread, per doz	1.80	1.80	3.25	7.80	10.80	17.40	---	---

### STEAM HOSE COUPLING



FIG. H-662

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$
Each	\$1.25	1.25	1.50	2.00	2.50	3.50	6.00

### EXPANSION RING COUPLINGS

#### HOSE MENDER



FIG. H-663

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1
Brass, per dozen	\$1.20	1.20	2.50

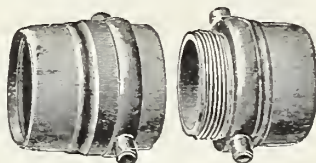


FIG. H-664

Size, inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
For Linen					
Hose, per dz	24.00	30.00	42.00	51.00	96.00
For Rubber					
Hose, per dz	---	---	39.00	54.00	---

#### HOSE BAND PLIER

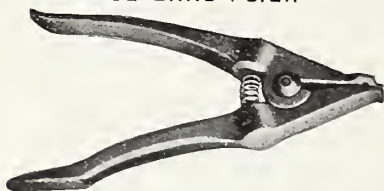


FIG. H-665

Per dozen	\$6.00
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#### HOSE BAND



FIG. H-666

### FIG. H-666—HOSE BANDS

Number	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Size, in.	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	1	1	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{3}{4}$	2	2	$2\frac{1}{4}$	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{1}{2}$
L'gth, in.	$3\frac{3}{8}$	$3\frac{3}{4}$	$4\frac{1}{8}$	$4\frac{3}{4}$	5	$5\frac{3}{8}$	6	$6\frac{3}{8}$	$6\frac{3}{4}$	$7\frac{1}{8}$	$7\frac{1}{2}$	8	$8\frac{1}{2}$	9	$9\frac{1}{2}$	10	$10\frac{1}{2}$	11
Per dozen	.40	.40	.60	.60	.80	.80	1.00	1.00	1.20	1.20	1.40	1.40	1.60	1.60	1.80	1.80	2.00	2.00

## HOSE GOODS

BRASS HOSE CAP

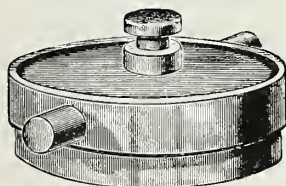


FIG. H-667

FIG. H-667—BRASS HOSE CAPS

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Per dozen	\$4.00	6.00	8.00	10.00	15.00	24.00	31.00

YERDON HOSE CLAMP

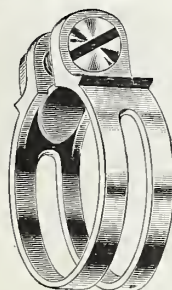


FIG. H-668

FIG. H-668—YERDON HOSE CLAMPS

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
For Hydrant Hose, per dozen	\$1.50	1.50	2.00	2.50	3.00	4.00	7.00	10.00
For Steam Hose, per dozen	1.50	2.00	2.50	3.00	3.50	5.50	8.50	13.00

HOSE COUPLING SPANNER



FIG. H-669

Size, inches	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{2}$	3
Brass, per dozen	\$8.00	8.50	9.00	10.00	12.00	20.00
Iron, per dozen	1.44	1.80	---	2.40	3.00	---

## Standard Fire Department Siamese Connections



FIG. H-670

WITH SWING CHECKS, PLUGS  
AND CHAINS

	Iron Body, Painted.	Brass Body, Painted.	Brass Body, Polished.
3 in. and 4 in. } x 2 1/2 in. and 3 in. }	\$20.00	27.50	30.00
6 in. } x 2 1/2 in. and 3 in. }	\$25.00	35.00	40.00



## HOSE GOODS

## SUCTION HOSE STRAINER

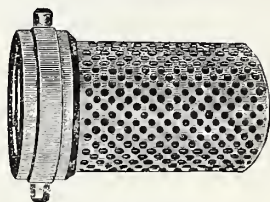


FIG. H-671

## ROSE SPRINKLER



FIG. H-672

## FIG. H-671—SUCTION HOSE STRAINERS

Size, inches.....	2	2½	3	4	5	6
With Hose Thread, each.....	\$7.50	8.50	10.00			
With Iron Pipe Thread, each.....				19.00	31.00	46.00

## FIG. H-672—ROSE SPRINKLERS

Diameter, inches.....	2	2½	3
Size Thread.....	¾	¾	1
Per dozen.....	\$4.50	5.25	6.00

## MALE

## HOSE NIPPLES

## FEMALE

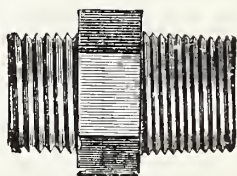


FIG. H-673

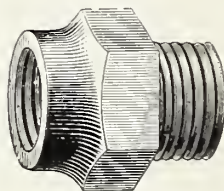


FIG. H-674

Size, inches.....	½	¾	1	1¼	1½	2	2½	3
Fig. H-673—Per dozen.....	\$3.50	3.50	5.00	9.00	10.00	14.00	28.00	40.00
Fig. H-674—Per dozen.....	3.50	3.50	5.00	9.00	10.00	14.00	28.00	40.00

Male Hose Nipples have Hose Thread on one end and Iron Pipe Thread on other end. Female Hose Nipples have Hose Thread on Male end and Iron Pipe Thread on Female end.

## HOSE REDUCER

## HOSE BUSHING

## HOSE BIBB END

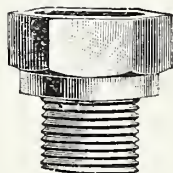


FIG. H-675



FIG. H-676



FIG. H-677

## FIGS. H-675 AND H-676—REDUCERS AND BUSHINGS

Size, inches.....	1 x ¾	1¼ x 1	1¼ x ¾	1½ x 1¼	1½ x 1	1½ x ¾	2 x 1½	2 x 1¼
Per dozen.....	\$6.50	10.00	10.00	12.00	12.00	12.00	18.00	18.00

Hose Reducers and Bushings have hose thread on both Male and Female ends.

## FIG. H-677—HOSE BIBB ENDS

Size, inches.....	½	¾	1	1¼	1½	2
Per dozen.....	\$2.50	2.50	2.50	3.50	6.00	8.00



## LAWN SPRINKLERS

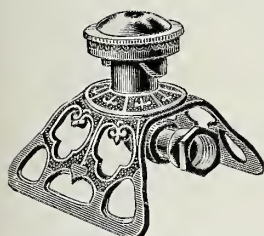
CACTUS  
No. 5

FIG. H-678

Not affected by gritty, sandy or dirty water.  
No revolving parts or any fitting that can clog or get out of order.

Will last indefinitely.

No. 5, in addition to centrifugal spray, has a center spray which adds to the beauty and efficiency of the sprinkler.

---

$\frac{3}{4}$ inch, each	-----	\$2.00
1 inch, each	-----	2.50

---

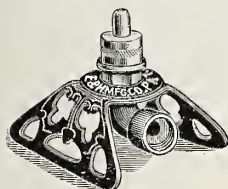
JAPANESE  
No. 12

FIG. H-679

This sprinkler is superior to all others for high or varying pressures and will give satisfaction with a low pressure.

---

$\frac{3}{4}$ inch, each	-----	\$2.00
1 inch, each	-----	2.50

---

PARK  
No. 22

FIG. H-680

To adjust this Sprinkler to Full Circle, screw down the Acorn Stem; to make Half Circle, raise Acorn Stem to full limit and adjust Spray Plate.

---

$\frac{3}{4}$ inch, each	-----	\$2.00
1 inch, each	-----	2.50

---

TWIN

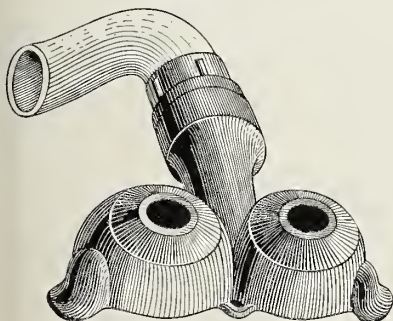


FIG. H-681

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Galvanized, per dozen	-----	\$5.00
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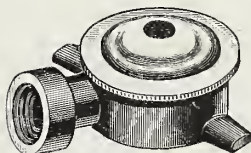
CACTUS  
No. 9

FIG. H-682

---

$\frac{3}{4}$ inch, each	-----	\$1.50
1 inch, each	-----	2.00

---

THE GUIBERT SWINGING HOSE RACK

SHOWING RACK ATTACHED TO PIPE

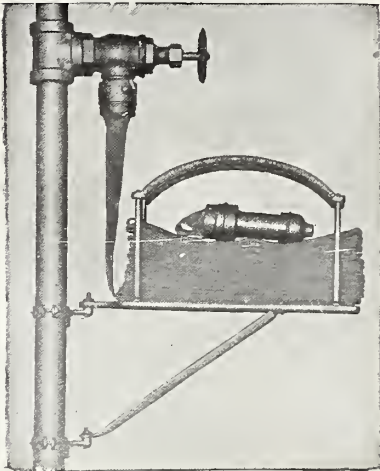


FIG. H-683

SHOWING RACK ATTACHED TO WALL

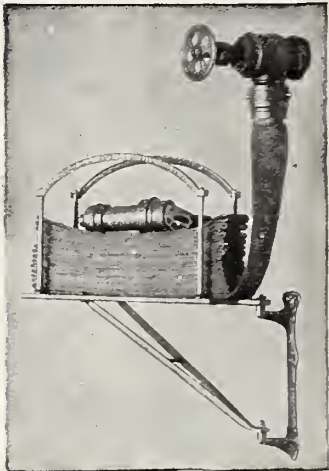


FIG. H-684

Aluminum finish or any color enamel.

							With Wall Pipe Plate.	With Pipe Clamp.
X 1	-----	for 25 feet	Unlined	Lined	Hose	----- 1 inch,	\$5.00	\$5.40
X 2	-----	50 "	"	"	"	----- 1 "	5.00	5.40
X 3	-----	75 "	"	"	"	----- 1 "	5.50	5.90
X 4	-----	100 "	"	"	"	----- 1 "	6.00	6.40
0 Narrow	-----	50 "	"	"	"	----- 1 1/2 "	5.00	5.40
0	-----	50 "	"	"	"	----- 2 "	5.00	5.40
00	-----	50 "	"	"	"	----- 2 1/2 "	5.00	5.40
1 Special Narrow	-----	75 "	"	"	"	----- 1 1/2 "	5.50	5.90
1	-----	75 "	"	"	"	----- 2 "	5.50	5.90
2	-----	75 "	"	"	"	----- 2 1/2 "	5.50	5.90
1 Narrow	-----	100 "	"	"	"	----- 1 1/2 "	6.00	6.40
1	-----	100 "	"	"	"	----- 2 "	6.00	6.40
2	-----	100 "	"	"	"	----- 2 1/2 "	6.00	6.40
3 Special Narrow	-----	125 "	"	"	"	----- 1 1/2 "	6.50	6.90
3	-----	125 "	"	"	"	----- 2 "	6.50	6.90
4	-----	125 "	"	"	"	----- 2 1/2 "	6.50	6.90
3 Narrow	-----	150 "	"	"	"	----- 1 1/2 "	7.00	7.40
3	-----	150 "	"	"	"	----- 2 "	7.00	7.40
4	-----	150 "	"	"	"	----- 2 1/2 "	7.00	7.40
5 Narrow	-----	200 "	"	"	"	----- 1 1/2 "	7.50	7.90
5	-----	200 "	"	"	"	----- 2 "	7.50	7.90
6	-----	200 "	"	"	"	----- 2 1/2 "	8.00	8.40
3 Narrow	-----	50 ft. Rubber-lined	Cotton	Mill	Hose	----- 1 1/2 "	7.00	7.40
3	-----	50 "	"	"	"	----- 2 "	7.00	7.40
4	-----	50 "	"	"	"	----- 2 1/2 "	7.00	7.40
5 Narrow	-----	100 "	"	"	"	----- 1 1/2 "	7.50	7.90
5	-----	100 "	"	"	"	----- 2 "	7.50	7.90
6	-----	100 "	"	"	"	----- 2 1/2 "	8.00	8.40

In ordering Racks with Pipe Clamps always state internal diameter or external circumference of pipe to which racks are to be attached.  
Racks nickel-plated on iron are \$3.00 each, net, more than above.  
Special quotations for other styles of finish furnished on application.

## THE IMPROVED A B C SWINGING HOSE REEL

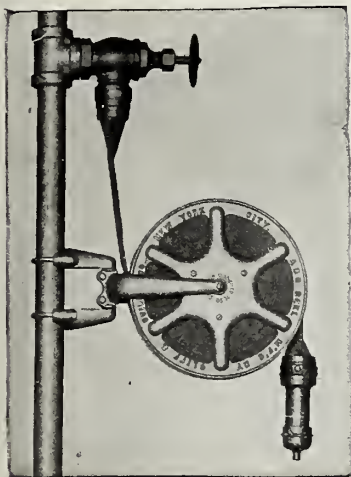
SHOWING REEL ATTACHED  
TO PIPE

FIG. H-685

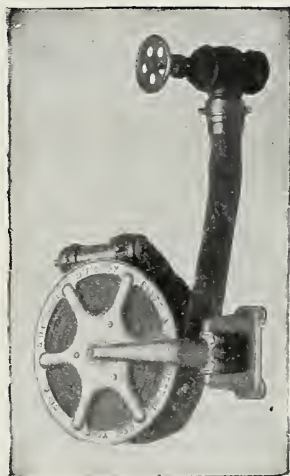
SHOWING REEL ATTACHED  
TO WALL

FIG. H-686

The strongest and most ornamental swinging hose reel ever made.

Aluminum finish or any color enamel, with wall plates.

A 1 for	50 Feet Unlined Linen Hose	1½ inch,	\$5.00
A 2	50 " " " "	2 " "	5.00
A 3	50 " " " "	2½ " "	5.00
AA 1	75 " " " "	1½ " "	5.50
AA 2	75 " " " "	2 " "	5.50
AA 3	75 " " " "	2½ " "	5.50
B 1	100 " " " "	1½ " "	6.00
B 2	100 " " " "	2 " "	6.00
B 3	100 " " " "	2½ " "	6.00
C 1	150 " " " "	1½ " "	7.00
C 2	150 " " " "	2 " "	7.00
C 3	150 " " " "	2½ " "	7.00
D 1	200 " " " "	1½ " "	8.00
D 2	200 " " " "	2 " "	8.00
D 3	200 " " " "	2½ " "	8.00
C 1	50 Feet Rubber Lined Cotton Mill Hose	1½ " "	7.00
C 2	50 " " " " " "	2 " "	7.00
C 3	50 " " " " " "	2½ " "	7.00
D 1	100 " " " " " "	1½ " "	8.00
D 2	100 " " " " " "	2 " "	8.00
D 3	100 " " " " " "	2½ " "	8.00

Reels with pipe clamp are 40 cents each, net, in addition to net cost of above.

## HOSE REELS

K. C. No. 1

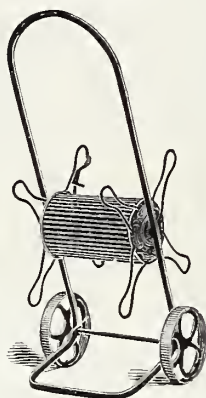


FIG. H-687

Tubular frame, corrugated iron drum, wire arms, wheels 7 inches in diameter.  
The only reel with a corrugated drum. Capacity, 100 feet  $\frac{3}{4}$  inch Hose.

Each

\$2.00

## ALL IRON HOSE REELS

## GARDEN REELS

NOS. 10 AND 20

NOS. 30 AND 40

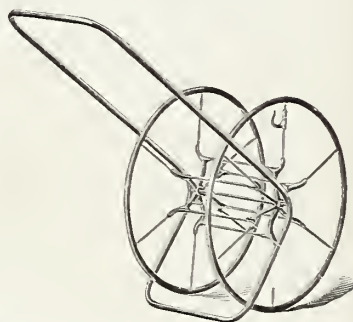
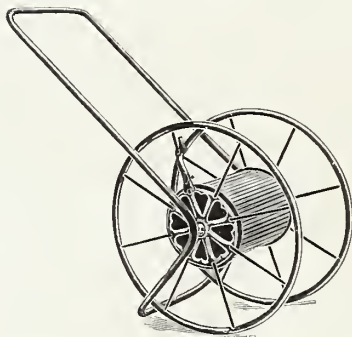


FIG. H-388

Number	10	20	30	40
Height of Reel in inches	21	24	29	134
Weight of Reel in pounds	18	20	30	75
Capacity of 3-ply $\frac{3}{4}$ inch Rubber Hose, feet	100	150	400	800
Capacity of 4-ply 1 inch Rubber Hose, feet	50	75	150	300
Capacity of 4-ply $1\frac{1}{4}$ inch Rubber Hose, feet	--	--	100	250
Capacity of $1\frac{1}{4}$ inch Cotton Rubber-lined Hose, feet	--	100	200	500
Capacity of $1\frac{1}{2}$ inch Cotton Rubber-lined Hose, feet	--	75	150	400
Capacity of 2 inch Cotton Rubber-lined Hose, feet	--	--	100	300
Each	\$3.50	4.00	6.50	25.00



## VILLAGE HOSE CART

IRON FRAME, ON WOOD WHEELS

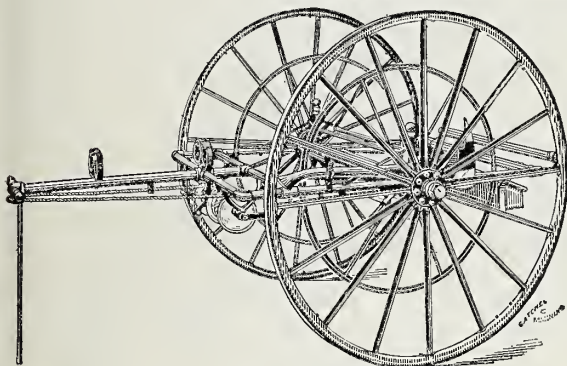


FIG. H-689

The material and workmanship used in the construction of these carts are of the highest quality. They are of medium weight, very strong, and will endure extremely rough usage. They are mounted on WOOD WHEELS of the very best pattern; have Tool Box and Friction Roller at rear, Rope Reel and Drag Rope, Nozzle Holder on Tongue and Tongue Rest. Equipped with Fireman's Axe and Crowbar in Spring Holders. Hub Caps are polished brass, or nickel-plated, if desired. Handsomely finished in vermilion and black.

For Roller Bearings, add \$35.00 to List Prices.

Number	419	420	421
Height of Wheels	4 ft. 6 in.	5 ft.	5 ft. 6 in.
Extreme outer width	5 ft.	5 ft.	5 ft. 4 in.
Extreme length	8 ft.	8 ft. 8 in.	9 ft. 6 in.
Weight complete, pounds	325	400	500
Capacity, 2½ inch Double Jacket Fire Hose, feet	350	400	500
Each	\$120.00	130.00	160.00

## SPECIAL HEAVY CART—FOR LARGE AMOUNT OF HOSE

IRON, ON WOOD WHEELS

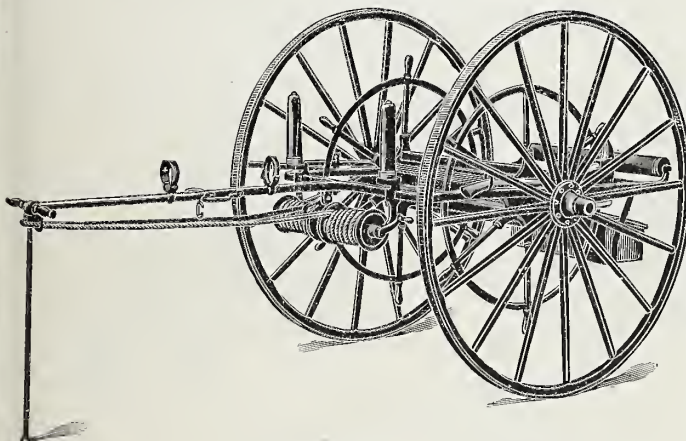


FIG. H-690

This is an exceedingly strong cart. It is well equipped, having a Chain Winding attachment with Winch Handles for Reeling on Hose; Clutch to hold Reel in position when not in use; Rope Reel and Drag Rope, Double Nozzle Holders on Tongue, Friction Roller and Tool Box at rear, Fireman's Axe and Crowbar in Spring Holders. These carts handsomely finished in vermilion and black, are mounted on heavy "Archibald" wood wheels. If Roller Bearings are desired, add \$40.00 to list price.

Number	500	501
Height of Wheel	5 ft. 6 in.	6 ft.
Extreme outer width	5 ft. 6 in.	5 ft. 9 in.
Extreme length	10 ft. 8 in.	11 ft.
Weight of Cart complete, pounds	600	700
Capacity, 2½ inch Double Jacket Fire Hose, feet	600	1000
Each	\$250.00	275.00



## LEVER HANDLE BIBBS

## GROUND KEY

LEAD PIPE

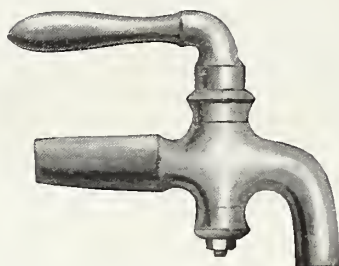


FIG. H-691

IRON PIPE

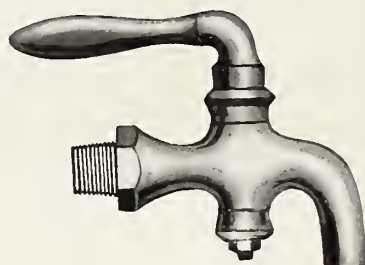


FIG. H-692

FIGS. H-691 AND H-692

Size, inches-----	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Finished, per dozen-----	\$15.50	18.00	21.50	29.00	41.00	70.00	110.00	210.00
Nickel-plated, per dozen---	17.00	20.00	24.00	32.00	45.00	80.00	130.00	250.00

HOSE BIBB, LEAD PIPE

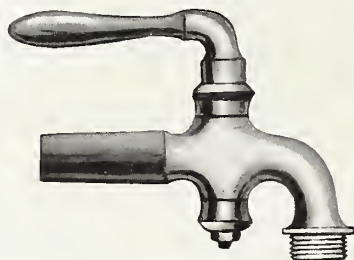


FIG. H-693

HOSE BIBB, IRON PIPE

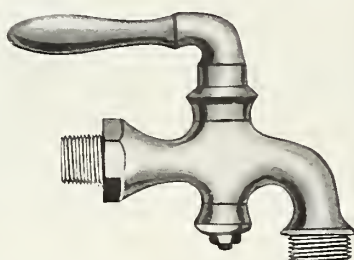


FIG. H-694

FIGS. H-693 AND H-694

Size, inches-----	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Finished, per dozen-----	\$17.50	20.00	23.50	32.00	46.00	76.00	118.00	225.00
Nickel-plated, per dozen---	19.00	22.00	26.00	35.00	50.00	86.00	138.00	265.00

## T HANDLE STOPS, LEAD PIPE

STOP

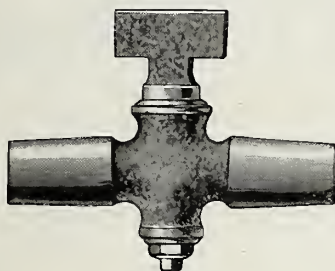


FIG. H-695

STOP AND WASTE

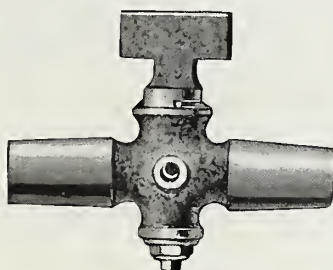


FIG. H-696

FIG. H-695

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop, per doz	\$15.00	17.00	22.00	26.00	38.00	60.00	90.00	180.00

FIG. H-696

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop and Waste, per doz	\$17.00	19.00	24.00	28.00	41.00	64.00	96.00	190.00

## T HANDLE STOPS, LEAD AND IRON PIPE

STOP

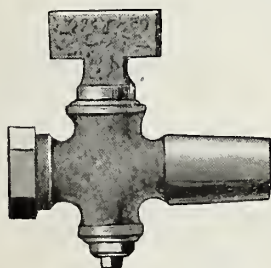


FIG. H-697

STOP AND WASTE

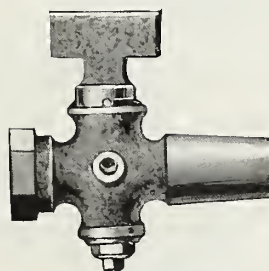


FIG. H-698

FIG. H-697

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop, per doz	\$15.00	17.00	22.00	26.00	38.00	60.00	90.00	180.00

FIG. H-698

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop and Waste, per doz	\$17.00	19.00	24.00	28.00	41.00	64.00	96.00	190.00

## LEVER HANDLE STOPS, LEAD PIPE

STOP

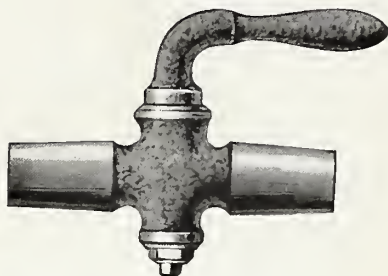


FIG. H-699

STOP AND WASTE

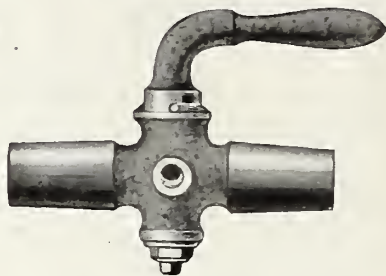


FIG. H-700

Size, inches .....	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. H-699—Rough Stop, per doz....	\$15.00	17.00	22.00	26.00	38.00	60.00	90.00	180.00
Fig. H-700—Rough Stop and Waste, per doz.....	17.00	19.00	24.00	28.00	41.00	64.00	96.00	190.00

## LEVER HANDLE STOPS, LEAD AND IRON PIPE

STOP

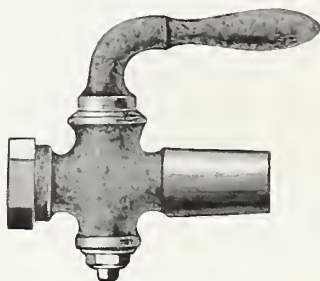


FIG. H-701

STOP AND WASTE

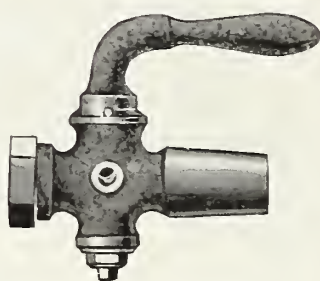


FIG. H-702

Size, inches.....	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. H-701—Rough Stop, per doz....	\$15.00	17.00	22.00	26.00	38.00	60.00	90.00	180.00
Fig. H-702—Rough Stop and Waste, per doz .....	17.00	19.00	24.00	28.00	41.00	64.00	96.00	190.00

## T HANDLE STOPS, IRON PIPE

STOP

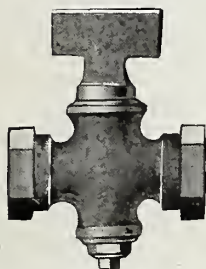


FIG. H-703

STOP AND WASTE

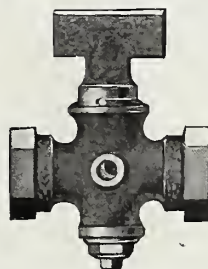


FIG. H-704

FIG. H-703

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop, per doz	\$15.00	17.00	22.00	26.00	38.00	60.00	90.00	180.00

FIG. H-704

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop and Waste, per doz	\$17.00	19.00	24.00	28.00	41.00	64.00	96.00	190.00

## LEVER HANDLE STOPS, IRON PIPE

STOP

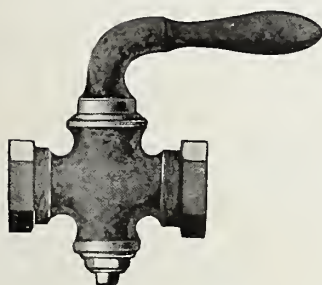


FIG. H-705

STOP AND WASTE

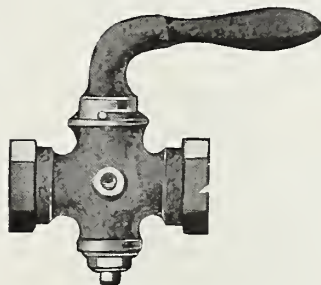


FIG. H-706

FIG. H-705

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop, per doz	\$15.00	17.00	22.00	26.00	38.00	60.00	90.00	180.00

FIG. H-706

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop and Waste, per doz	\$17.00	19.00	24.00	28.00	41.00	64.00	96.00	190.00

## T HANDLE ROUNDWAY STOPS, LEAD PIPE

STOP

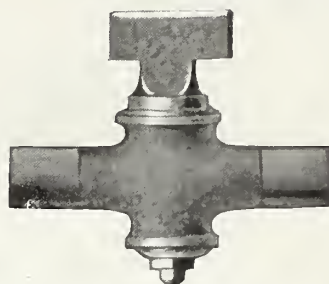


FIG. H-707

STOP AND WASTE

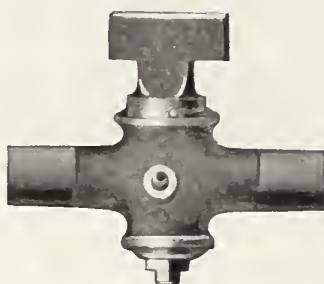


FIG. H-708

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. H-707—Rough Stop, per doz	\$21.00	27.00	32.00	54.00	84.00	126.00	250.00
Fig. H-708—Rough Stop and Waste, per dz	23.00	29.00	34.00	57.00	88.00	132.00	260.00

## T HANDLE ROUNDWAY STOPS, IRON PIPE

STOP

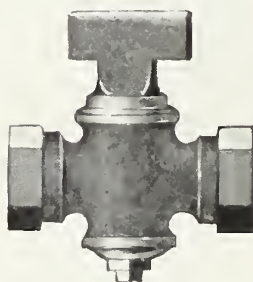


FIG. H-709

STOP AND WASTE

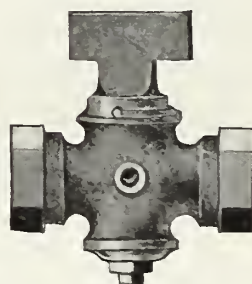


FIG. H-710

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. H-709—Rough Stop, per doz	\$21.00	27.00	32.00	54.00	84.00	126.00	250.00
Fig. H-710—Rough Stop and Waste, per dz	23.00	29.00	34.00	57.00	88.00	132.00	260.00



## LEVER HANDLE ROUNDWAY STOPS, LEAD PIPE

ROUGH

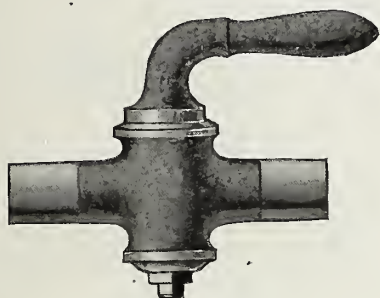


FIG. H-711

FINISHED

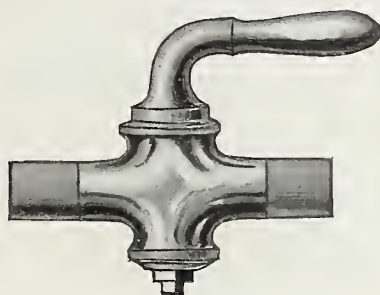


FIG. H-712

Size, inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. H-711—Rough Stop, per doz..	\$21.00	27.00	32.00	54.00	84.00	126.00	250.00
Size, inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1			
Fig. H-712—Finished Stop, per doz.....	\$25.00	32.00	38.00	63.00			
Fig. H-712—Nickel-plated Stop, per doz.....	27.00	34.50	40.50	66.00			

ROUGH STOP AND WASTE

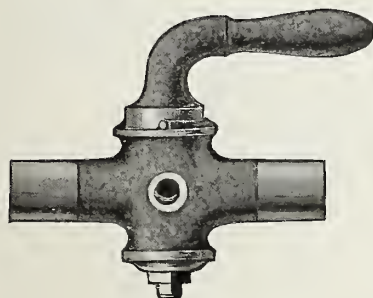


FIG. H-713

FINISHED STOP AND WASTE

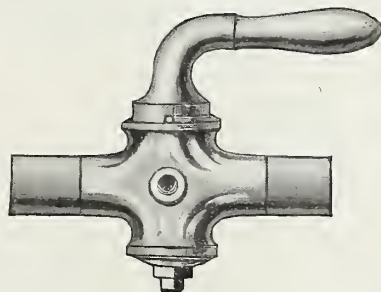


FIG. H-714

Size, inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. H-713—Rough Stop and Waste, per doz..	\$23.00	29.00	34.00	57.00	88.00	132.00	260.00
Size, inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1			
Fig. H-714—Finished Stop and Waste, per doz.....	\$27.00	34.00	40.00	66.00			
Fig. H-714—Nickel-plated Stop and Waste, per doz.....	29.00	36.50	42.50	69.00			

## LEVER HANDLE ROUNDWAY STOPS, IRON PIPE

ROUGH STOP

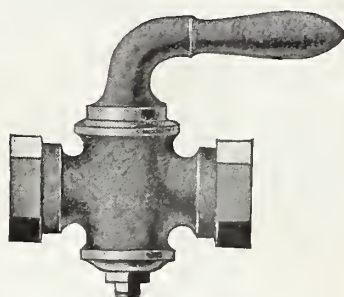


FIG. H-715

ROUGH STOP AND WASTE

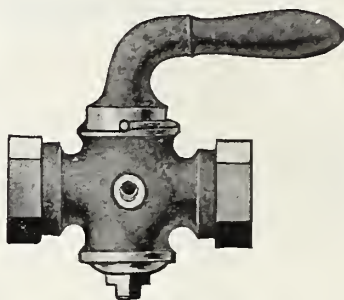


FIG. H-716

Size, inches .....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. H-715—Rough Stop, per doz.....	\$21.00	27.00	32.00	54.00	84.00	126.00	250.00
Fig. H-716—Rough Stop and Waste, per dz	23.00	29.00	34.00	57.00	88.00	132.00	260.00

FINISHED STOP

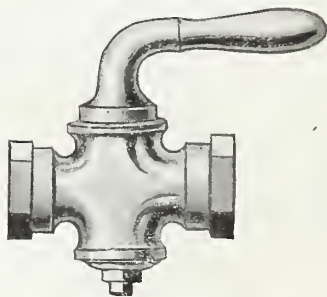


FIG. H-717

FINISHED STOP AND WASTE

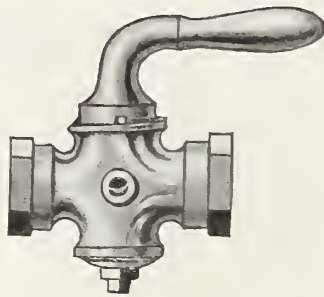


FIG. H-718

Size, inches .....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. H-717—Finished Stop, per doz .....	\$25.00	32.00	38.00	62.00
Fig. H-717—Nickel-plated Stop, per doz.....	27.50	35.00	41.50	66.50
Fig. H-718—Finished Stop and Waste, per doz.....	27.00	34.00	40.00	65.00
Fig. H-718—Nickel-plated Stop and Waste, per doz..	29.50	37.00	43.50	69.50

## T HANDLE ROUNDWAY STOPS

## LEAD AND IRON PIPE

STOP

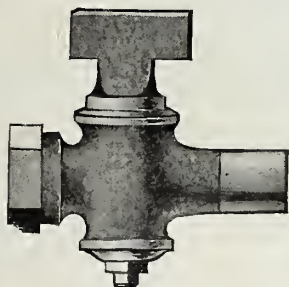


FIG. H-719

STOP AND WASTE

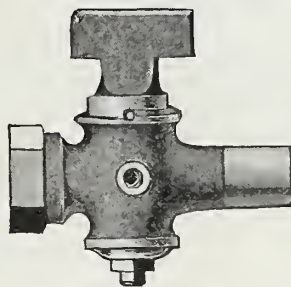


FIG. H-720

Size, inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. H-719—Rough Stop, per doz.....	\$21.00	27.00	32.00	54.00	84.00	126.00	250.00
Fig. H-720—Rough Stop and Waste, per dz	23.00	29.00	34.00	57.00	88.00	132.00	260.00

## LEVER HANDLE ROUNDWAY STOPS

## LEAD AND IRON PIPE

STOP

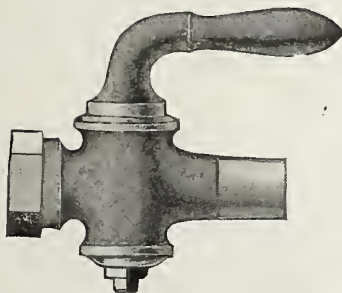


FIG. H-721

STOP AND WASTE

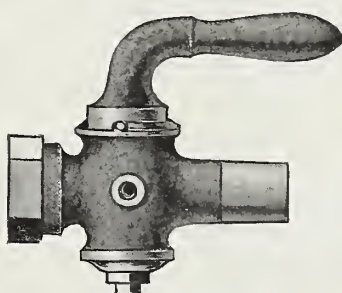


FIG. H-722

Size, inches.....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. H-721—Rough Stop, per doz.....	\$21.00	27.00	32.00	54.00	84.00	126.00	250.00
Fig. H-722—Rough Stop and Waste, per dz	23.00	29.00	34.00	57.00	88.00	132.00	260.00

## ROUNDWAY "NEWPORT" AND "H" PATTERN STOPS

T HANDLE, IRON PIPE

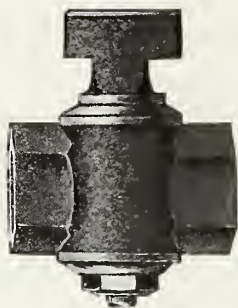


FIG. H-723

LEVER HANDLE, IRON PIPE

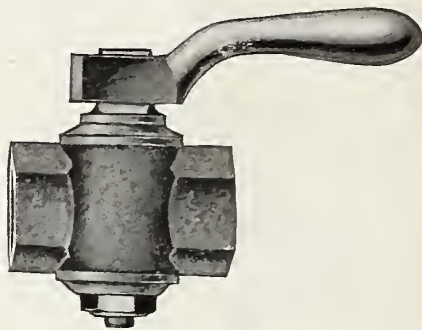


FIG. H-724

FIGS. H-723 AND H-724

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{3}{4} \times 1$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough "H" Pattern Stop, per doz.	\$18.00	23.50	26.50	---	44.00	70.00	98.00	185.00
Rough "Newport" Stop, per doz.	20.00	26.00	29.50	44.00	52.00	82.00	116.00	220.00
Add for Waste, per doz.	2.00	2.00	2.00	3.00	3.00	4.00	6.00	10.00

"H" and "Newport" Pattern Stops for LEAD PIPE same list as above.

T HANDLE  
HYDRANT COCK

"MONARCH"

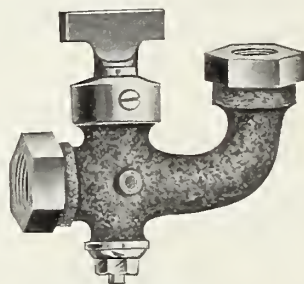


FIG. H-725

STRAIGHTWAY, IRON PIPE

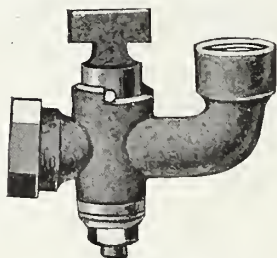


FIG. H-726

ROUNDWAY, IRON PIPE

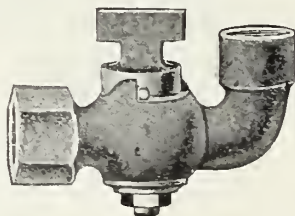


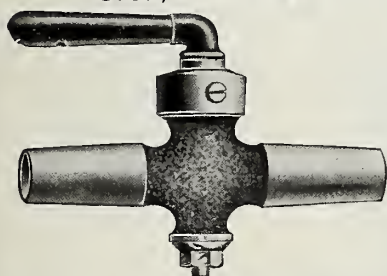
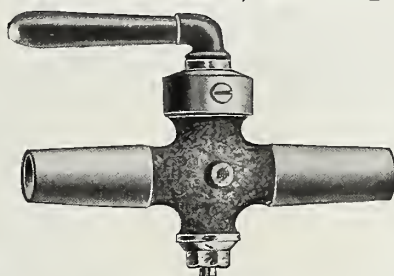
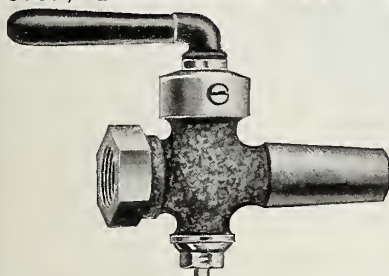
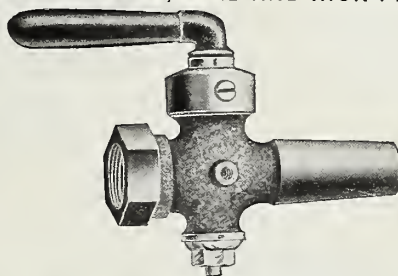
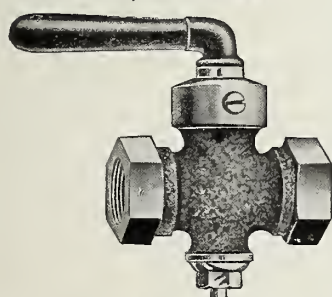
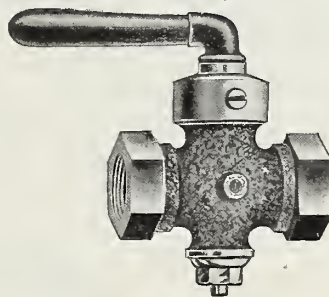
FIG. H-727

FIGS. H-725, H-726 AND H-727

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Straightway, per doz.	\$21.00	27.00	31.50	45.00	69.00	104.00	200.00
Roundway, per doz.	25.00	32.00	37.50	61.00	93.00	140.00	270.00

HYDRANT COCKS, for LEAD PIPE, and LEAD and IRON PIPE, same list as above.



**"U-T-K" and "Mueller" Reversible Ground Key Cocks****STOP, LEAD PIPE****FIG. H-728****STOP AND WASTE, LEAD PIPE****FIG. H-729****STOP, LEAD AND IRON PIPE****FIG. H-730****STOP AND WASTE, LEAD AND IRON PIPE****FIG. H-731****STOP, IRON PIPE****FIG. H-732****STOP AND WASTE, IRON PIPE****FIG. H-733**

The construction of this cock is such that it can be instantly changed from a right hand to a left hand cock, and vice versa, by simply giving the patent cap a quarter turn on the square of key.

**LEVER AND TEE HANDLE****STRAIGHTWAY**

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop, per doz	\$15.00	17.00	22.00	26.00	38.00	60.00	90.00	180.00
Rough Stop and Waste, per doz	17.00	19.00	24.00	28.00	41.00	64.00	96.00	190.00
Finished Stop, per doz	18.50	21.00	27.00	32.00	46.00	-----	-----	-----
Finished Stop and Waste, per doz	20.50	23.00	29.00	34.00	49.00	-----	-----	-----
Nickel-plated Stop, per doz	20.00	23.00	29.50	35.00	50.00	-----	-----	-----
Nickel-plated Stop and Waste, per doz	22.00	25.00	31.50	37.00	53.00	-----	-----	-----

**ROUNDWAY**

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough Stop, per doz	\$21.00	27.00	32.00	54.00	84.00	126.00	250.00
Rough Stop and Waste, per doz	23.00	29.00	34.00	57.00	88.00	132.00	260.00
Finished Stop, per doz	25.00	32.00	38.00	62.00	-----	-----	-----
Finished Stop and Waste, per doz	27.00	34.00	40.00	65.00	-----	-----	-----
Nickel-plated Stop, per doz	27.00	34.50	41.00	66.00	-----	-----	-----
Nickel-plated Stop and Waste, per doz	29.00	36.50	43.00	69.00	-----	-----	-----



## PATENT CURB COCKS

ROUNDWAY

"GLAUBER'S," "MUELLER'S," "SIMPLEX," "OHIO," ETC.



FIG. H-734

Revised List on Curb Cocks, Adopted by Manufacturers, October 12, 1899.

## TEE, LEVER OR SOCKET HEAD

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Curb Stop for Iron Pipe	\$25.00	33.00	39.00	65.00	102.00	154.00	300.00
Curb Stop for Lead Pipe	25.00	33.00	39.00	65.00	102.00	154.00	300.00
Curb Stop for Iron and Lead Pipe	25.00	33.00	39.00	65.00	102.00	154.00	300.00
Curb Stop and Waste for Iron Pipe	27.00	35.00	41.00	68.00	106.00	160.00	310.00
Curb Stop and Waste for Lead Pipe	27.00	35.00	41.00	68.00	106.00	160.00	310.00
Curb Stop and Waste for Iron and Lead Pipe	27.00	35.00	41.00	68.00	106.00	160.00	310.00

## RAIN AND WELL WATER COCKS

IRON PIPE

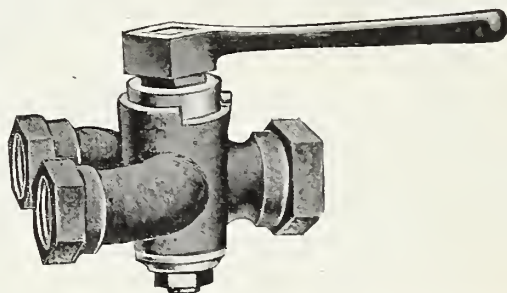


FIG. H-735

Size, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
For Iron Pipe, Rough, per doz	\$75.00	100.00	140.00	210.00	300.00
For Lead Pipe, Rough, per doz, (not Illustrated)	75.00	100.00	140.00	210.00	300.00

**CORPORATION COCKS**

WITH STRAIGHT OR BENT COUPLING AND NUT

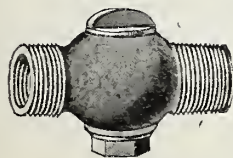
WITHOUT COUPLING  
AND NUT

FIG. H-736

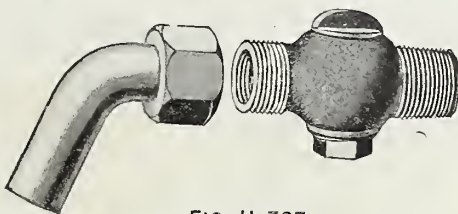


FIG. H-737

FIG. H-736—FOR SCREW OR HEXAGON PLUG

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough, each	\$1.25	1.35	1.85	2.40	3.85	7.80	10.40	17.40

FIG. H-737—FOR SCREW OR HEXAGON PLUG BENT OR STRAIGHT TAIL

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough, each	\$1.45	1.60	2.25	2.85	4.50	9.00	12.00	20.00

Above lists apply on Cocks that are to be inserted with a Tapping Machine, having standard iron pipe or special threads.

**FOR TAPPING MACHINES**

SQUARE ON SHOULDER

WITHOUT COUPLING  
AND NUT

WITH STRAIGHT OR BENT COUPLING AND NUT

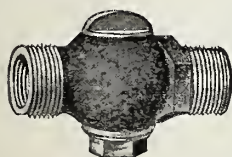


FIG. H-738

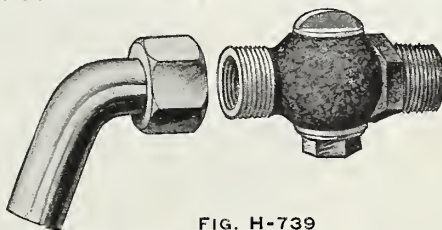


FIG. H-739

FIG. H-738—WITHOUT COUPLING AND NUT

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough, each	\$1.25	1.35	1.85	2.40	3.85	7.80	10.40	17.40

FIG. H-739—BENT OR STRAIGHT TAIL

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough, each	\$1.45	1.60	2.25	2.85	4.50	9.00	12.00	20.00

In ordering, state for whose Machine wanted.

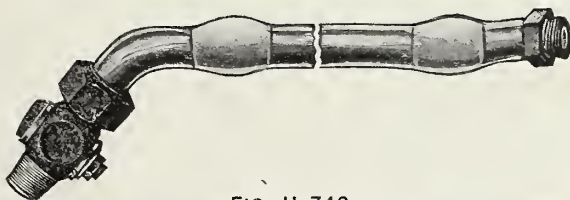
**LEAD SERVICE CONNECTIONS**

FIG. H-740

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Complete, each	\$2.80	3.00	3.40	4.00	5.40	12.00	18.00	24.00
Extra Strong Lead Pipe, inches	18	18	18	18	18	24	30	36

"U. T. K." AND "MUELLER" SPECIAL HIGH GRADE

COMPRESSION BIBB

Red Metal—Warranted

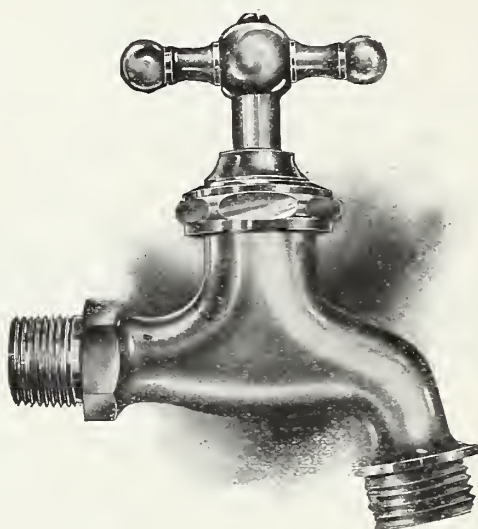


FIG. H-741

Size, inches .....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Plain, Lead Pipe, per doz.....	\$13.00	16.00	20.00
Nickel-plated, Lead Pipe, per doz .....	15.50	18.50	22.50
Plain, Iron Pipe, per doz.....	13.00	16.00	20.00
Nickel-plated, Iron Pipe, per doz.....	15.50	18.50	22.50
For Hose End, add, per doz.....	2.00	2.00	2.00

## COMPRESSION BIBBS

LEAD PIPE, PLAIN

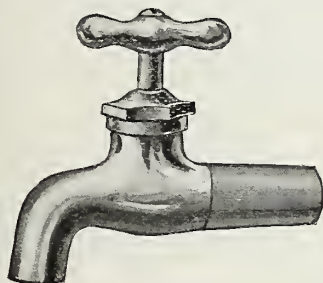


FIG. H-742

IRON PIPE, PLAIN

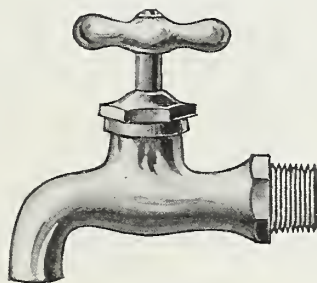


FIG. H-743

FIGS. H-742 AND H-743

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Finished, per doz	\$12.00	13.00	16.00	20.00	40.00	65.00	100.00	200.00
Nickel-plated, per doz	14.00	15.50	18.50	22.50	43.00	69.00	108.00	212.00

LEAD PIPE, HOSE

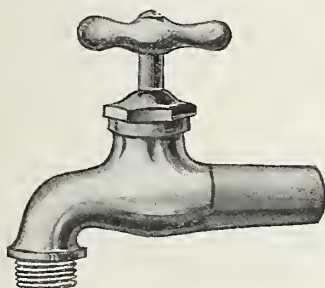


FIG. H-744

IRON PIPE, HOSE

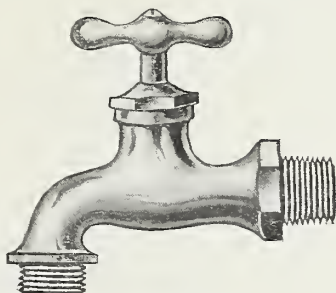


FIG. H-745

FIGS. H-744 AND H-745

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Finished, per doz	\$14.00	15.00	18.00	22.00	43.00	69.00	106.00	210.00
Nickel-plated, per doz	16.00	17.50	20.50	24.50	46.00	73.00	114.00	222.00

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Add for Stuffing Box	\$3.00	3.00	3.00	4.00	6.00	12.00	15.00	25.00

## COMPRESSION BIBBS

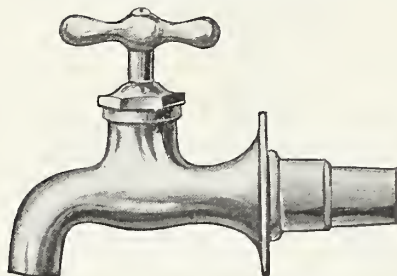
LEAD PIPE, FLANGE  
AND THIMBLE

FIG. H-746

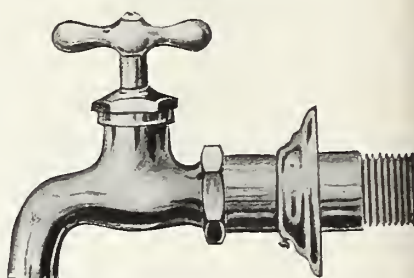
IRON PIPE, DEEP SET  
SCREW FLANGE

FIG. H-747

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. H-746—Finished, per doz	\$17.00	18.00	22.00	28.00	54.00
Fig. H-746—Nickel-plated, per doz	19.50	20.50	24.50	30.50	57.00
Add for Hose End	2.00	2.00	2.00	2.00	3.00
Fig. H-747—Finished, per doz	\$23.00	28.00	33.00	39.00	59.00
Fig. H-747—Nickel-plated, per doz	25.50	30.50	35.50	41.50	62.00
Add for Hose End	2.00	2.00	2.00	2.00	3.00

FLANGE, NUT AND BENT COUPLING

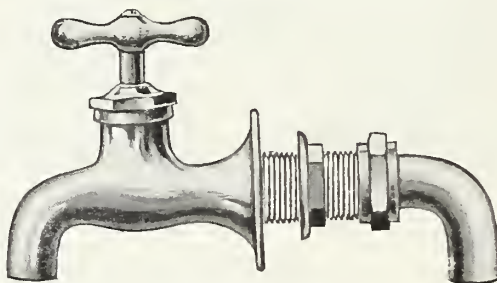


FIG. H-748

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished, per doz	\$20.00	25.00	34.00	44.00	76.00
Nickel-plated, per doz	22.50	27.50	36.50	46.50	79.00

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Add for Stuffing Box	\$3.00	3.00	3.00	4.00	6.00



## COMPRESSION BIBBS, FLANGED

IRON PIPE, FEMALE, PLAIN

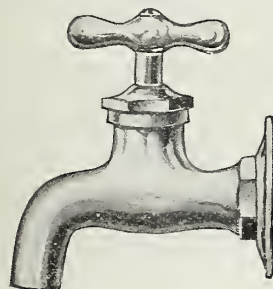


FIG. H-749

IRON PIPE, FEMALE, HOSE

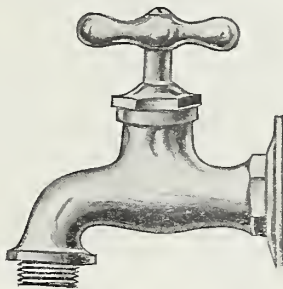


FIG. H-750

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished, per doz	\$15.00	16.00	19.50	25.00	49.00
Nickel-plated, per doz	17.50	18.50	22.00	27.50	52.00
Add for Male End, per doz	2.00	2.00	2.00	2.00	4.00

FIG. H-750

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished, per doz	\$17.00	18.00	21.50	27.00	52.00
Nickel-plated, per doz	19.50	20.50	24.00	29.50	55.00
Add for Male End, per doz	2.00	2.00	2.00	2.00	4.00

IRON PIPE, MALE, PLAIN

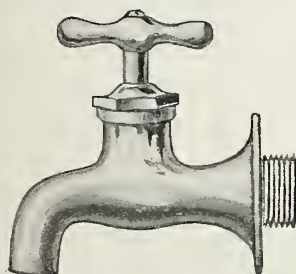


FIG. H-751

IRON PIPE, MALE, HOSE

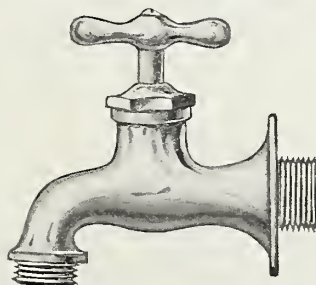


FIG. H-752

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished, per doz	\$15.00	16.00	19.50	25.00	49.00
Nickel-plated, per doz	17.50	18.50	22.00	27.50	52.00

FIG. H-752

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished, per doz	\$17.00	18.00	21.50	27.00	52.00
Nickel-plated, per doz	19.50	20.50	24.00	29.50	55.00

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Add for Stuffing Box	\$3.00	3.00	3.00	4.00	6.00

## COMPRESSION BIBBS—LOOSE KEY

IRON PIPE, PLAIN

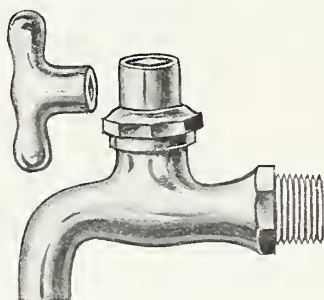


FIG. H-753

IRON PIPE, HOSE

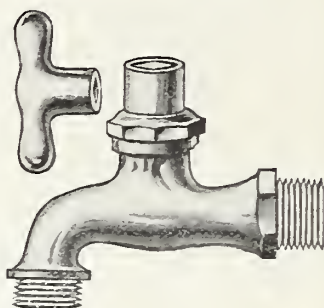


FIG. H-754

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. H-753—Finished, per doz	\$17.00	19.00	22.00	27.00	48.00
Fig. H-753—Nickel-plated, per doz	19.00	21.50	24.50	29.50	51.00
Fig. H-754—Finished, per doz	19.00	21.00	24.00	29.00	51.00
Fig. H-754—Nickel-plated, per doz	21.00	23.50	26.50	31.50	54.00
Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Add for Stuffing Box	\$3.00	3.00	3.00	4.00	6.00

For LEAD PIPE, the same List as above.

## COMPRESSION SINK BIBBS

IRON PIPE

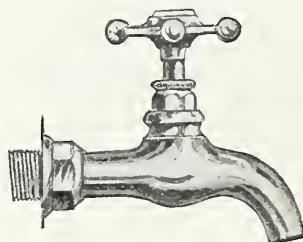


FIG. H-755

WITH FLANGE, THIMBLE AND LOCK NUT

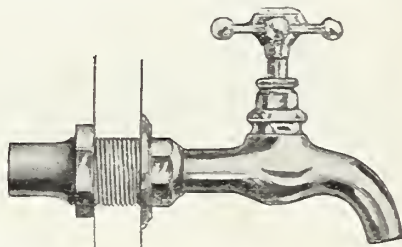


FIG. H-756

$\frac{3}{4}$  inch I. P. Thread.

Fig. H-755—Finished, per doz	\$40.00
Fig. H-755—Nickel-plated, per doz	43.00
Fig. H-756—Finished, per doz	60.00
Fig. H-756—Nickel-plated, per doz	63.00
Add for Hose End, per doz	\$2.00
Without Nut and Thimble (Fig. H-756), deduct, per doz	15.00

## COMPRESSION WASH TRAY BIBBS

LEAD PIPE

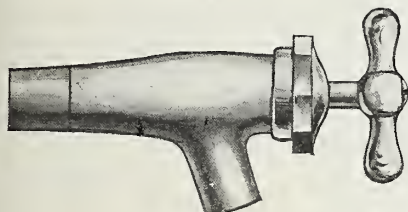


FIG. H-757

IRON PIPE

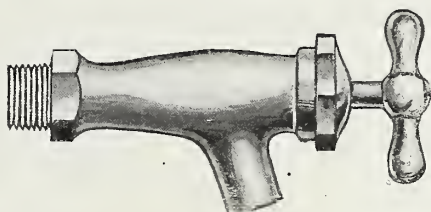


FIG. H-758

FIGS. H-757 AND H-758

Size, inches .....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished, per doz .....	\$14.00	17.00	21.00
Nickel-plated, per doz .....	16.50	19.50	23.50

FLANGE AND THIMBLE

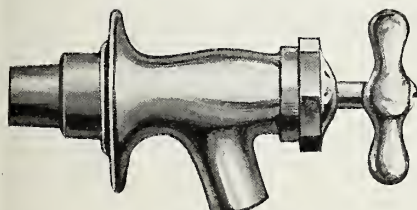


FIG. H-759

FIG. H-759

Size, inches .....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished, per doz .....	\$19.00	23.00	30.00
Nickel-plated, per doz .....	21.50	25.50	32.50

FLANGE, NUT AND BENT COUPLING

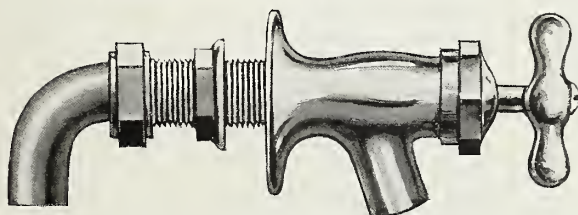


FIG. H-760

Size, inches .....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. H-760—Finished, per doz .....	\$26.00	35.00	46.00
Fig. H-760—Nickel-plated, per doz .....	28.50	37.50	48.50
Fig. H-760—Add for Loose Flange, per doz .....	5.00	6.00	7.00
Fig. H-760—Add for Side Handle Pattern, per doz .....	2.00	2.00	2.00
Fig. H-760—Add for Hexagon on Front of Flange, per doz .....	2.00	2.00	2.00
Add for Stuffing Box .....	3.00	3.00	4.00

## COMPRESSION WASH TRAY BIBBS

With Side Handle

LEAD PIPE



FIG. H-761

IRON PIPE—WITH SHOULDER



FIG. H-762

FIGS. H-761 AND H-762

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. H-761—Finished, per doz	\$16.00	19.00	23.00
Fig. H-761—Nickel-plated, per doz	18.50	21.50	25.50
Fig. H-762—Finished, per doz	16.00	19.00	23.00
Fig. H-762—Nickel-plated, per doz	18.50	21.50	25.50
If with Stuffing Box, add per doz	3.00	3.00	4.00

IRON PIPE, FLANGED

INSIDE THREAD

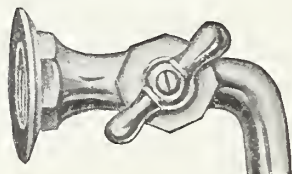


FIG. H-763

IRON PIPE, FLANGED

OUTSIDE THREAD



FIG. H-764

FIGS. H-763 AND H-764

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished, per doz	\$19.00	22.50	29.00
Nickel-plated, per doz	21.50	25.00	31.50
If with Stuffing Box, add per doz	3.00	3.00	4.00

FLANGE, NUT AND BENT COUPLING

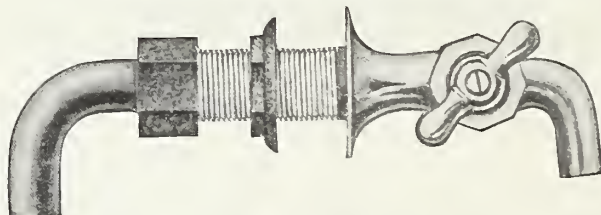


FIG. H-765

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished, per doz	\$28.00	37.00	48.00
Nickel-plated, per doz	30.50	39.50	50.50
If with Stuffing Box, add per doz	3.00	3.00	4.00

## STUB PATTERN COMPRESSION WASH TRAY BIBBS

## FLANGED, IRON PIPE, MALE END

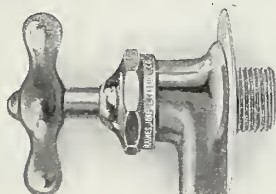


FIG. H-766

Size of Body, inches.....	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{8}$
Threads on Shank, inches.....	$\frac{1}{2}$ I. P.	$\frac{3}{4}$ I. P.	Hose.	$\frac{3}{4}$ I. P.	Hose.
Finished, per doz.....	\$13.00	14.50	14.50	16.00	16.00
Nickel-plated, per doz.....	15.50	17.00	17.00	18.50	18.50
Add for Lead Pipe Thimble, per doz.....	2.00	2.50	2.50	2.50	2.50

Flange with Female Thread. Same List as above.

## COMPRESSION STOPS—LOOSE KEY

## LEAD PIPE

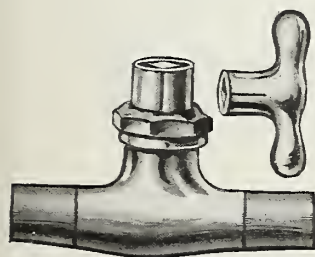


FIG. H-767

## IRON PIPE

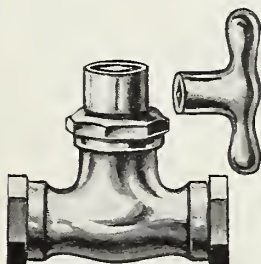


FIG. H-768

## ANGLE, IRON PIPE

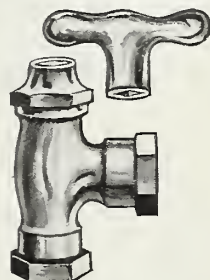


FIG. H-769

FIGS. H-767, H-768 AND H-769

Size, inches.....	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished, per doz.....	\$18.00	20.00	23.00	31.00	51.00
Nickel-plated, per doz.....	20.00	22.50	25.50	33.50	54.00

One Key furnished with each Cock.

Size, inches.....	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Add for Stuffing Box.....	\$3.00	3.00	3.00	4.00	6.00



## COMPRESSION STOPS, AND SHOWER COCKS

STOP, LEAD PIPE

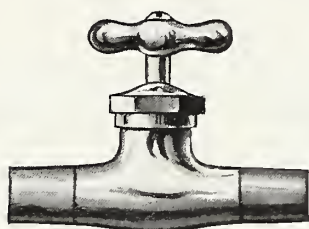


FIG. H-770

STOP, LEAD AND IRON PIPE

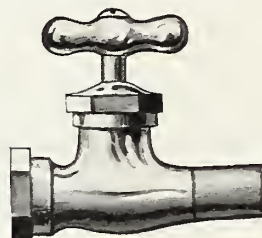


FIG. H-771

FIGS. H-770 AND H-771

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Rough, per doz	\$12.50	13.50	16.00	23.00	39.00	61.00	104.00	200.00
Finished, per doz	13.00	14.00	17.00	24.00	43.00	69.00	116.00	220.00
Nickel-plated, per doz	15.00	16.50	19.50	26.50	46.00	79.00	136.00	250.00

STOP, IRON PIPE

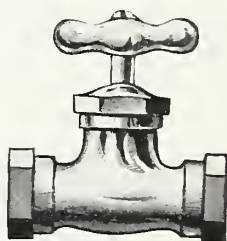


FIG. H-772

STOP AND WASTE, WITH STUFFING BOX, IRON PIPE

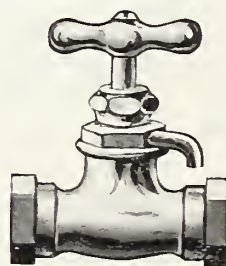


FIG. H-773

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. H-772—Rough, per doz	\$12.50	13.50	16.00	23.00	39.00	61.00	104.00	200.00
Fig. H-772—Finished, per doz	13.00	14.00	17.00	24.00	43.00	69.00	116.00	220.00
Fig. H-772—Nickel-plated, per doz	15.00	16.50	19.50	26.50	46.00	79.00	136.00	250.00

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. H-773—Rough, per doz	\$17.50	18.50	22.00	31.00	52.00
Fig. H-773—Finished, (Stuffing Box included), per doz	18.00	19.00	23.00	32.00	56.00
Fig. H-773—Nickel-plated (Stuffing Box included), per doz	20.00	21.50	25.50	34.50	59.00
Add for Wheel Handle, per doz	3.00	3.00	3.00	3.00	---
Add for Slip Joint, either end, per doz	3.00	3.00	3.00	3.00	---

Shower Cocks for Lead Pipe, and Lead and Iron Pipe, same list as Fig. H-773.

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Add for Stuffing Box, (except Fig. H-773)	\$3.00	3.00	3.00	4.00	6.00	12.00	15.00	25.00

## COMPRESSION LAVATORY STOPS

## THREADED ENDS

WHEEL HANDLE, ANGLE

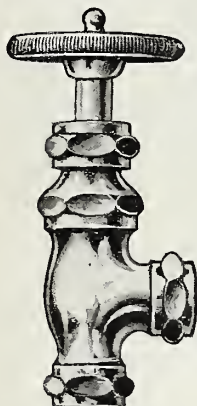


FIG. H-774

WHEEL HANDLE, STRAIGHT

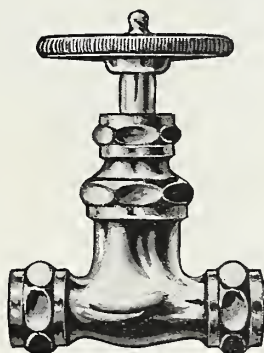


FIG. H-775

FIGS. H-774 AND H-775

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished, per doz.	\$19.00	20.00	23.00	31.00
Nickel-plated, per doz.	21.00	22.50	25.50	33.50

## WITH LOOSE KEY (Not Illustrated)

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished, per doz.	\$19.00	20.00	23.00	31.00
Nickel-plated, per doz.	21.00	22.50	25.50	33.50

For Slip Joint one end, add to above Lists \$3.00.

## COMPRESSION STOP COCK

FIG. H-776

These Cocks are intended for use upon Supply Pipes for Closets, Lavatories, etc. One end being a slip joint and the other for Iron Pipe Connection.

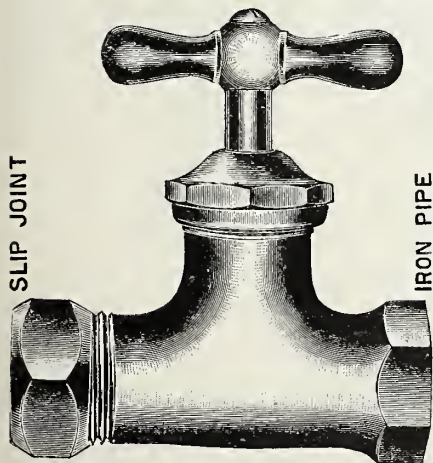


FIG. H-776

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$
Nickel-plated, per doz.	\$18.00	19.50
Nickel-plated, per doz., with Stuffing Box	21.00	22.50

## COMPRESSION URINAL COCKS

LEAD PIPE

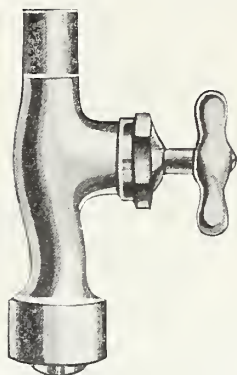


FIG. H-777

IRON PIPE

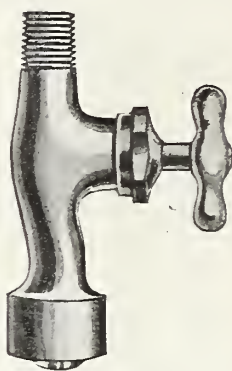


FIG. H-778

Size, inches.....	$\frac{1}{2}$	$\frac{5}{8}$
Fig. H-777—Finished, per doz.....	\$19.00	22.00
Fig. H-777—Nickel-plated, per doz.....	22.00	25.00
Size, inches.....	$\frac{1}{2}$	$\frac{5}{8}$
Fig. H-778—Finished, per doz.....	\$19.00	22.00
Fig. H-778—Nickel-plated, per doz.....	22.00	25.00

Iron Pipe with Shoulder, same list as Fig. H-778.

LEAD PIPE, FLANGE AND THIMBLE

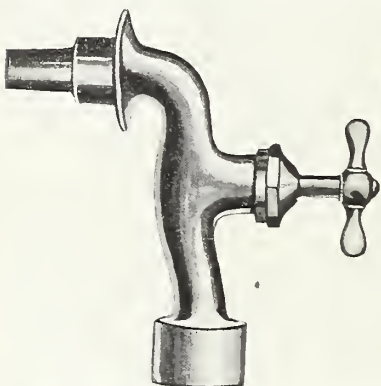


FIG. H-779

FLANGE, NUT AND BENT COUPLING

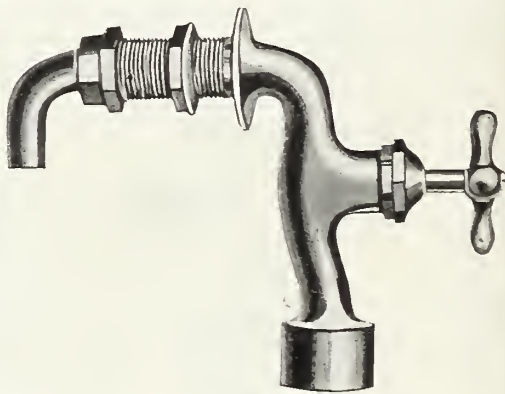


FIG. H-780

Size, inches.....	$\frac{1}{2}$	
Fig. H-779—Finished, per doz.....	\$27.00	
Fig. H-779—Nickel-plated, per doz.....	30.00	
Size, inches.....	$\frac{1}{2}$	
Fig. H-780—Finished, per doz.....	\$35.00	
Fig. H-780—Nickel-plated, per doz.....	38.00	

Stuffing Box, extra, per doz.....	\$3.00
Loose Key, extra, per doz.....	6.00

## COMPRESSION URINAL COCKS

FLANGE AND THIMBLE

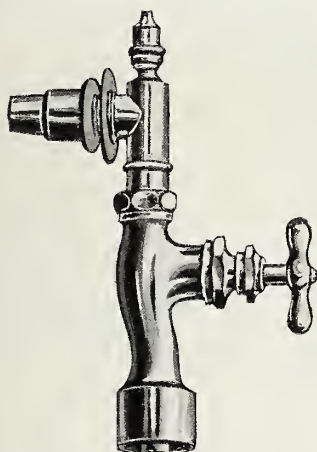


FIG. H-781

FLANGE, NUT AND BENT COUPLING

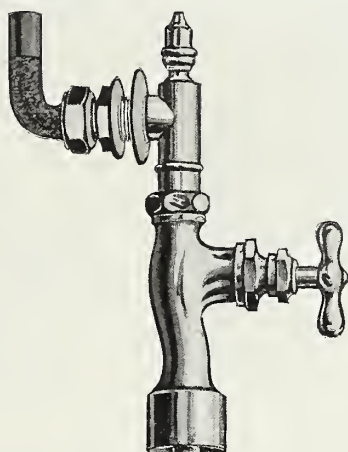


FIG. H-782

Fig. H-781—Finished, per doz.....	\$40.00
Fig. H-781—Nickel-plated, per doz.....	46.00
Fig. H-782—Finished, per doz.....	46.00
Fig. H-782—Nickel-plated, per doz.....	52.00
Add for Stuffing Box, per doz.....	3.00
Add for Loose Key, per doz.....	6.00

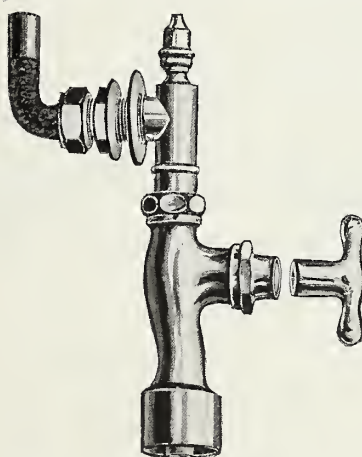
LOOSE KEY AND ADJUSTABLE FLANGE,  
NUT AND BENT COUPLING

FIG. H-783

Finished, per doz.....	\$52.00
Nickel-plated, per doz.....	58.00

### COMPRESSION SILL COCKS

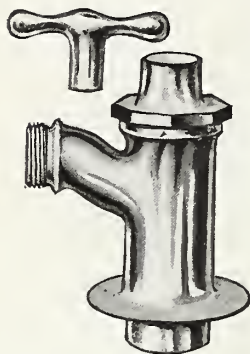


FIG. H-784



FIG. H-785

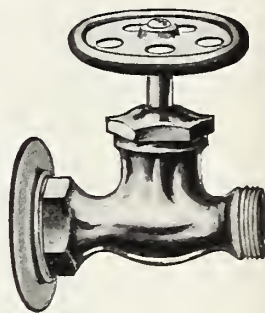


FIG. H-786

Size,  $\frac{1}{2}$  or  $\frac{3}{4}$  inch.

	N. P. on the Rough.	Finished.	Nickel-plated.
Fig. H-784—Per doz	\$20.00	23.00	26.00
Fig. H-785—Per doz	28.00	31.00	34.00
Fig. H-786—Per doz	21.00	24.00	27.00

### IMPROVED BALL COCKS

FOR LEAD PIPE

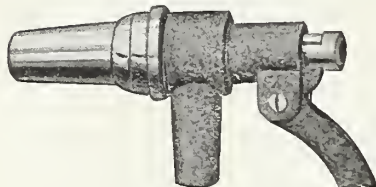


FIG. H-787

FOR IRON PIPE

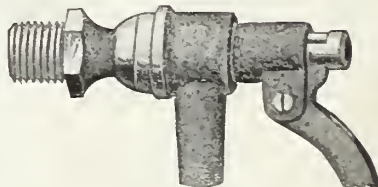


FIG. H-788

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Lead Pipe, per doz	\$14.00	16.00	24.00	36.00	60.00	90.00	170.00
Iron Pipe, per doz	14.00	16.00	24.00	36.00	60.00	90.00	170.00
With Nut and Bent Coupling	27.00	34.00	46.00				



## COMPRESSION HOPPER COCKS

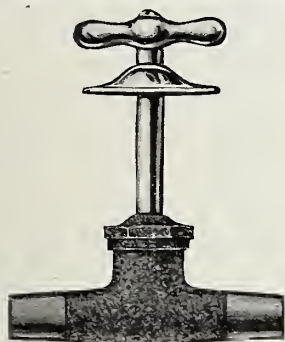
STRAIGHT PATTERN, ROUGH BODY  
FINISHED FLANGE AND HANDLE

FIG. H-789

FIGS. H-789 AND H-790

ANGLE PATTERN, ROUGH BODY  
FINISHED FLANGE AND HANDLE

FIG. H-790

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished Flange and Handle, per doz	\$18.50	23.00	29.00
N. P. Flange and Handle, per doz	21.00	25.50	31.50

## ANGLE COMPRESSION HOPPER COCKS

ROUGH BODY, FINISHED FLANGE  
AND HANDLE, IRON PIPE, MALE

FIG. H-791

FIGS. H-791 AND H-792

ROUGH BODY, FINISHED FLANGE  
AND HANDLE, IRON PIPE, FEMALE

FIG. H-792

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished Flange and Handle, per doz	\$18.50	23.00	29.00
Nickel-plated Flange and Handle, per doz	21.00	25.50	31.50
Add for Union Coupling, one end, per doz	5.00	6.00	8.00
Add for Stuffing Box	3.00	3.00	4.00

Both ends Iron Pipe, same list as above.

## COMPRESSION BASIN COCKS

## T HANDLE

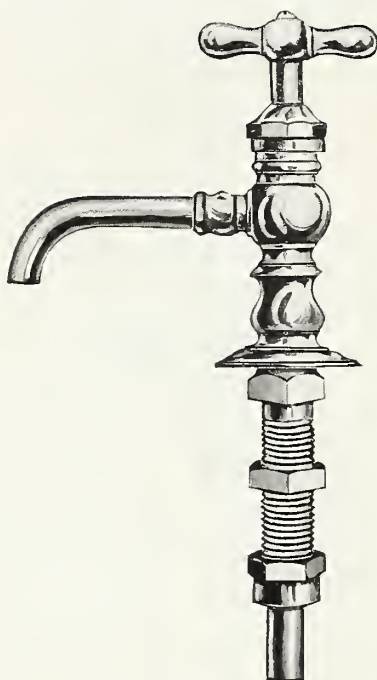


FIG. H-793

FIG. H-793

## T HANDLE COMPRESSION BASIN COCKS

---

No. 0—Nickel-plated, per doz .....	\$17.00
No. 1—Nickel-plated, per doz .....	19.00
No. 2—Nickel-plated, per doz .....	20.00

---

To above prices, if with Stuffing Box, add  
\$3.00 per doz.

Iron Pipe Tails for Basin Cocks see page 257.

## CROSS HANDLE

FIG. H-794

## CROSS HANDLE COMPRESSION BASIN COCKS

---

No. 0—Nickel-plated, per doz .....	\$19.00
No. 1—Nickel-plated, per doz .....	21.00
No. 2—Nickel-plated, per doz .....	22.00

---

To above prices, if with Stuffing Box, add \$3.00  
per doz.

Iron Pipe Tails for Basin Cocks see page 257.

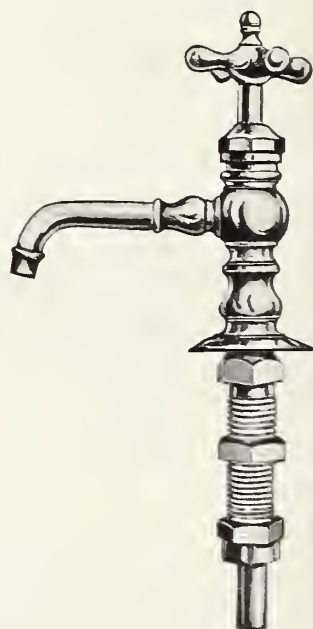


FIG. H-794

## COMPRESSION BASIN COCK

NO. 7, CHINA INDEX HANDLE

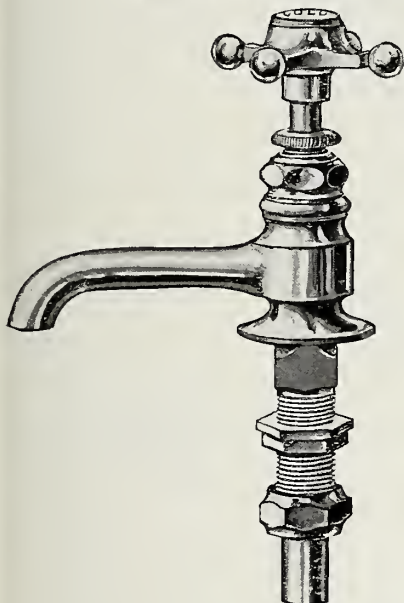


FIG. H-795

## COMPRESSION BASIN COCK

CHINA INDEX HANDLE

Finished, per doz.	\$36.00
Nickel-plated, per doz.	36.00

FIG. H-795

## BASIN COCK COUPLINGS FOR IRON PIPE

MALE, IRON PIPE, NO. 2

FEMALE, IRON PIPE, NO. 3

MALE, IRON PIPE, NO. 1



FIG. H-796



FIG. H-797



FIG. H-798

When furnished with cocks.

Iron Pipe Sizes, inches		$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Fig. H-796—Male, Rough, per doz.	These prices apply only when sent with cocks.	\$1.00	—	—
Fig. H-797—Male, Rough, per doz.		—	4.00	5.00
Fig. H-797—Male, Nickel-plated, per doz.		—	5.00	6.00
Fig. H-798—Female, Rough, per doz.		—	5.00	6.00
Fig. H-798—Female, Nickel-plated, per doz.		—	6.00	7.00

If furnished separately without cocks, add to above list prices, per doz. \$2.00

## COMPRESSION WORK

## DOUBLE BASIN COCK

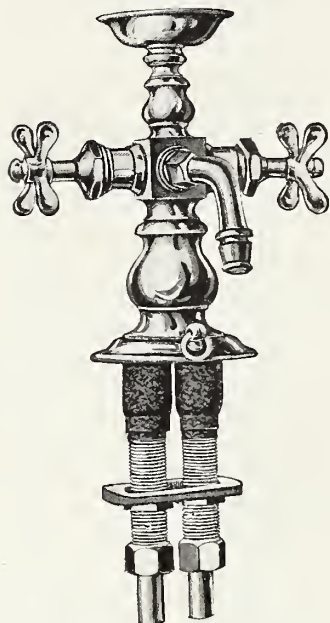


FIG. H-799

FIG. H-799

With Jewel Cup.

Nickel-plated, each .....	\$12.00
Add for Stuffing Box .....	.50

FIG. H-800

With 2½ inch Sprinkler.

Nickel-plated, each .....	\$12.00
Add for Stuffing Box .....	.50

Hose extra.

## DOUBLE SHAMPOO COCK

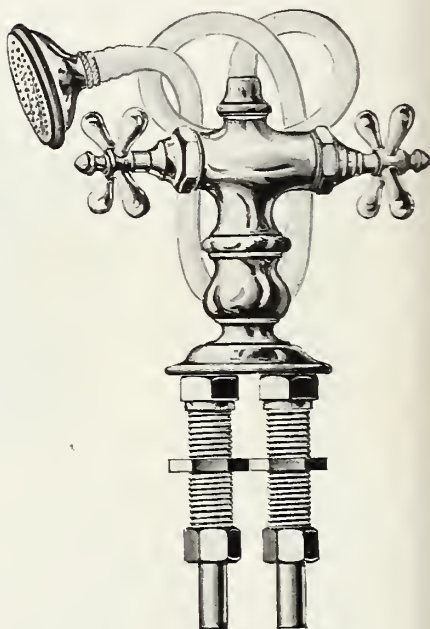


FIG. H-800

## COMPRESSION PANTRY COCKS

## SINGLE



FIG. H-801

FIG. H-801

	No. 1.	No. 2.
T Handle, Nickel-plated, per doz.....	\$34.00	\$38.00
Cross Handle, Nickel-plated, per doz.....	36.00	40.00
Add for Hose End, per doz .....	3.00	3.00
Add for Stuffing Box, per doz.....	3.00	3.00
Add for China Handles to T Handle list, per doz...	12.00	12.00

## DOUBLE

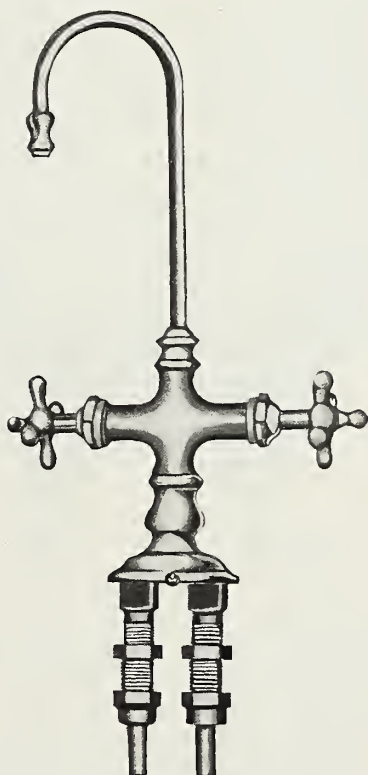


FIG. H-802

FIG. H-802

Cross Handle, Nickel-plated, each.....	\$11.00
Add for Hose End, each .....	.50
Add for Stuffing Box, each.....	.50



## COMPRESSION DOUBLE BATH COCKS

No. 1—WITH RING CUP

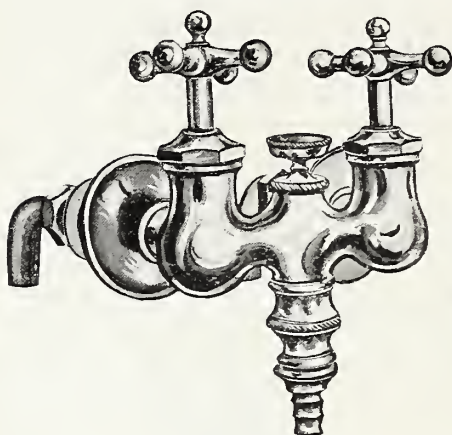


FIG. H-803

No. 3—PLAIN

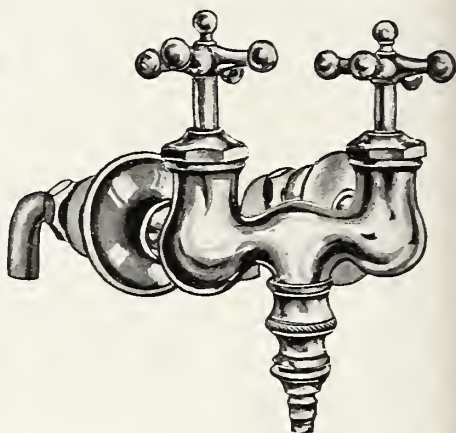


FIG. H-804

Fig. H-803—Nickel-plated, each	\$8.00
Fig. H-804—Nickel-plated, each	7.50
Add for Stuffing Box	.50

## No. 10, WITH CHINA NAME PLATES "HOT" AND "COLD"

No. 11

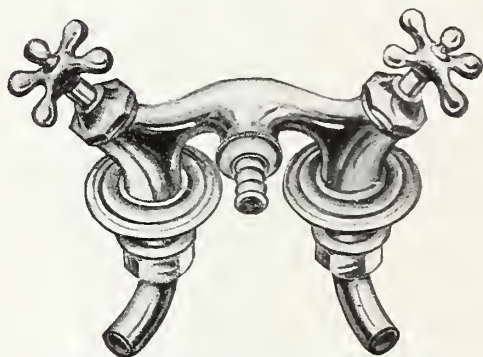


FIG. H-805

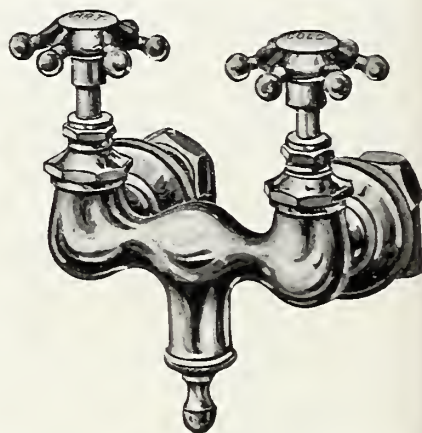


FIG. H-806

Fig. H-805—Finished or Nickel-plated, each	\$11.50
Fig. H-805—Add for Stuffing Box	.50
Fig. H-805—Add if with China Scalp Handles, per handle	1.00
Fig. H-806—Nickel-plated, each	10.00

All bath cocks regularly furnished with couplings for lead pipe.

Add, if cocks are with finished and nickel-plated couplings for  $\frac{1}{2}$  inch iron pipe or  $\frac{5}{8}$  inch pipe thread, \$2.50.

Lock and coupling nuts on such cocks are also nickel-plated.

## FULLER BIBBS

LEAD PIPE, PLAIN

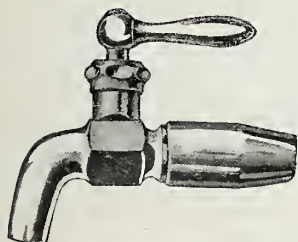


FIG. H-807

LEAD PIPE, HOSE

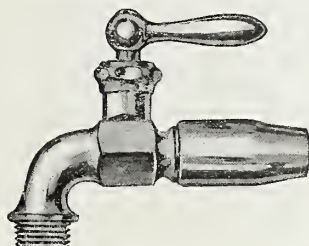


FIG. H-808

Size, inches .....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. H-807—Finished, per doz .....	\$21.00	24.00	30.00	48.00
Fig. H-807—Nickel-plated, per doz .....	25.00	28.00	36.00	58.00
Fig. H-808—Finished, per doz .....	24.00	28.00	34.00	52.00
Fig. H-808—Nickel-plated, per doz .....	28.00	32.00	40.00	62.00

IRON PIPE, PLAIN

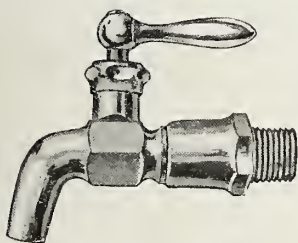


FIG. H-809

IRON PIPE, HOSE

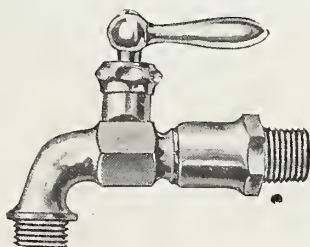


FIG. H-810

Size, inches .....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. H-809—Finished, per doz .....	\$21.00	24.00	30.00	48.00
Fig. H-809—Nickel-plated, per doz .....	25.00	28.00	36.00	58.00
Fig. H-810—Finished, per doz .....	24.00	28.00	34.00	52.00
Fig. H-810—Nickel-plated, per doz .....	28.00	32.00	40.00	62.00

## FULLER BIBBS

## SOLID FLANGE

## IRON PIPE, MALE, PLAIN

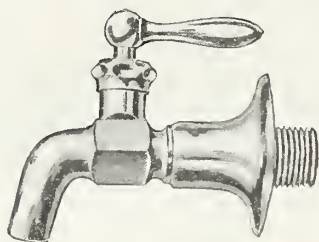


FIG. H-811

## IRON PIPE, MALE, HOSE

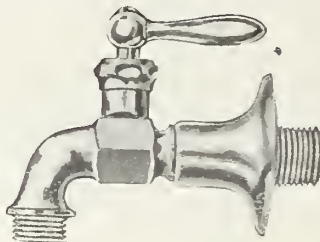


FIG. H-812

Size, inches .....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. H-811—Finished, per doz.....	\$28.00	32.00	39.00	59.00
Fig. H-811—Nickel-plated, per doz.....	34.00	38.00	47.00	69.00
Fig. H-812—Finished, per doz.....	\$31.00	36.00	43.00	63.00
Fig. H-812—Nickel-plated, per doz.....	37.00	42.00	51.00	73.00

If with Loose Flange add to above list \$1.00

## SOLID FLANGE

## IRON PIPE, FEMALE, PLAIN

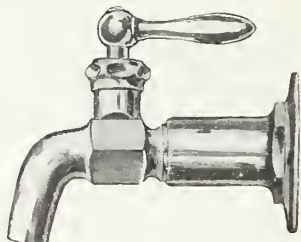


FIG. H-813

## IRON PIPE, FEMALE, HOSE

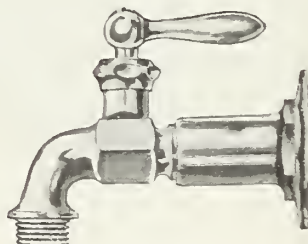


FIG. H-814

Size, inches .....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. H-813—Finished, per doz.....	\$28.00	32.00	39.00	59.00
Fig. H-813—Nickel-plated, per doz.....	34.00	38.00	47.00	69.00
Fig. H-814—Finished, per doz.....	\$31.00	36.00	43.00	63.00
Fig. H-814—Nickel-plated, per doz.....	37.00	42.00	51.00	73.00

## FULLER BIBBS

IRON PIPE, DEEP SET SCREW FLANGE

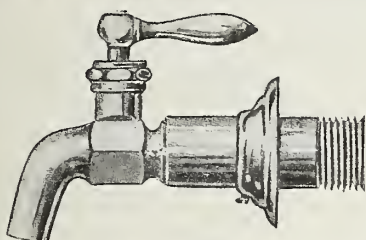


FIG. H-815

IRON PIPE, MALE, BOX FLANGE

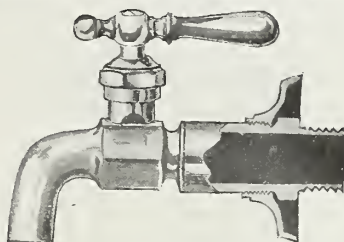


FIG. H-816

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. H-815—Finished, per doz	\$32.00	36.00	43.00	63.00
Fig. H-815—Nickel-plated, per doz	38.00	42.00	51.00	73.00
Add for Hose End, per doz	3.00	4.00	4.00	4.00
Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. H-816—Finished, per doz	\$32.00	36.00	43.00	63.00
Fig. H-816—Nickel-plated, per doz	38.00	42.00	51.00	73.00
Add for Hose End, per doz	3.00	4.00	4.00	4.00

## FLANGE, NUT AND BENT COUPLING

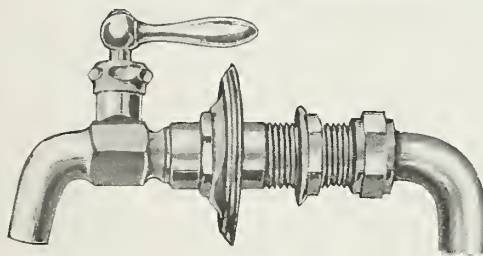


FIG. H-817

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished, per doz	\$43.00	47.00	54.00	74.00
Nickel-plated, per doz	49.00	53.00	62.00	84.00
Add for Hose End, per doz	3.00	4.00	4.00	4.00

## ADJUSTABLE BIBB FLANGE



FIG. H-818

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$
Finished Brass, per doz	\$6.00	6.00
Nickel-plated, per doz	7.00	7.00

## FULLER WASH TRAY BIBBS

LEAD PIPE

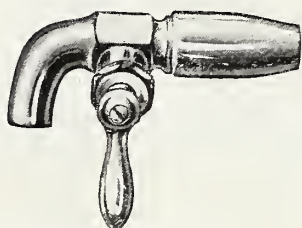


FIG. H-819

IRON PIPE

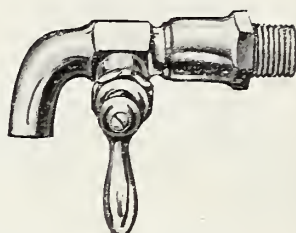


FIG. H-820

FIGS. H-819 AND H-820

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished, per doz	\$23.00	27.00	34.00
Nickel-plated, per doz	27.00	31.00	40.00
Add for Hose End, per doz	4.00	5.00	6.00

## WITH SOLID FLANGE

IRON PIPE, MALE

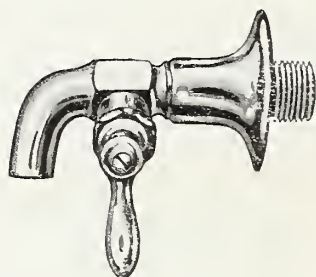


FIG. H-821

IRON PIPE, FEMALE

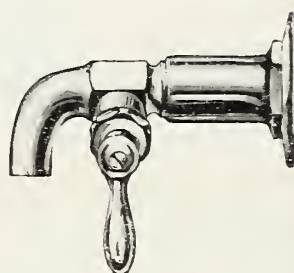


FIG. H-822

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. H-821—Finished, per doz	\$30.00	35.00	43.00
Fig. H-821—Nickel-plated, per doz	36.00	41.00	51.00
Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. H-822—Finished, per doz	\$30.00	35.00	43.00
Fig. H-822—Nickel-plated, per doz	36.00	41.00	51.00
Add for Hose End, per doz	4.00	5.00	6.00



## FULLER WASH TRAY BIBBS

## WITH FLANGE

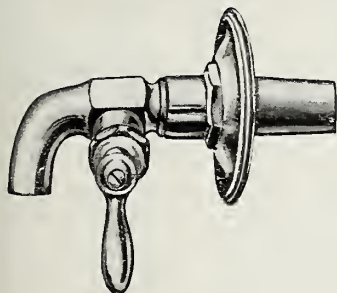
LEAD PIPE, ADJUSTABLE FLANGE  
AND THIMBLE

FIG. H-823

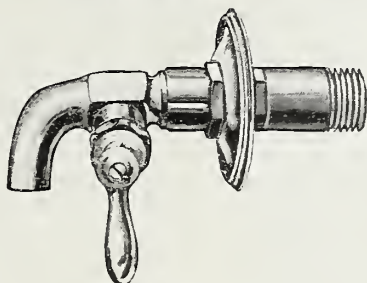
LONG SHANK, IRON PIPE,  
ADJUSTABLE FLANGE

FIG. H-824

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. H-823—Finished, per doz.	\$31.00	36.00	44.00
Fig. H-823—Nickel-plated, per doz.	37.00	42.00	52.00
Fig. H-824—Finished, per doz.	\$35.00	40.00	48.00
Fig. H-824—Nickel-plated, per doz.	41.00	46.00	56.00
Add for Hose End, per doz.	4.00	5.00	6.00

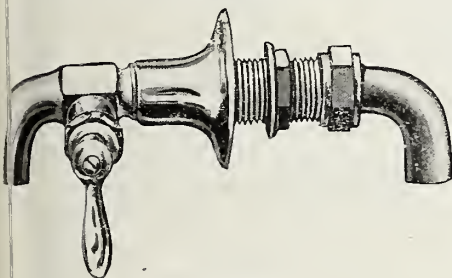
SOLID FLANGE, NUT AND BENT  
COUPLING

FIG. H-825

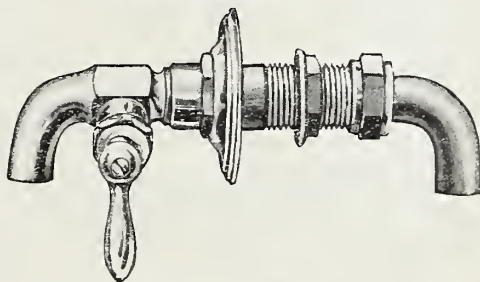
ADJUSTABLE FLANGE, NUT AND  
BENT COUPLING

FIG. H-826

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Fig. H-825—Finished, per doz.	\$41.00	46.00	54.00
Fig. H-825—Nickel-plated, per doz.	47.00	52.00	62.00
Fig. H-826—Finished, per doz.	\$45.00	50.00	58.00
Fig. H-826—Nickel-plated, per doz.	51.00	56.00	66.00
Add for Hose End, per doz.	4.00	5.00	6.00

## FULLER STOPS AND HOPPER COCKS

FULLER STOP, LEAD PIPE

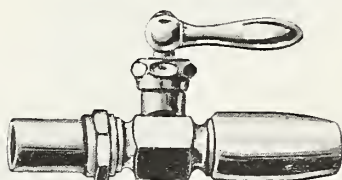


FIG. H-827

FULLER STOP, IRON PIPE

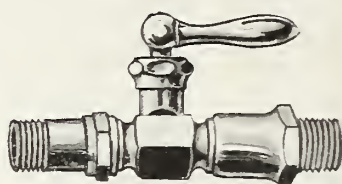


FIG. H-828

FIGS. H-827 AND H-828

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Finished, per doz.	\$21.00	26.00	30.00	43.00	70.00	82.00	175.00
Nickel-plated, per doz.	26.00	32.00	36.00	53.00	-----	-----	-----

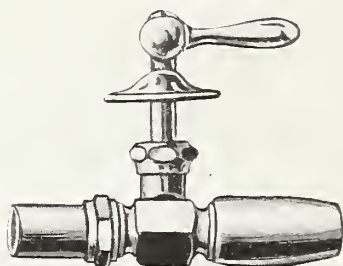
FULLER HOPPER COCK,  
LEAD PIPE

FIG. H-829

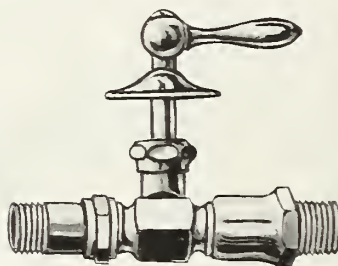
FULLER HOPPER COCK,  
IRON PIPE

FIG. H-830

FIGS. H-829 AND H-830

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished Flange and Handle, per doz.	\$23.00	28.00	35.00
Nickel-plated Flange and Handle, per doz.	27.00	33.00	41.00

## FULLER URINAL COCKS

LEAD PIPE



FIG. H-831

FIGS. H-831 AND H-832

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$
Finished, per doz	\$30.00	34.00
Nickel-plated, per doz	34.00	38.00

WITH FLANGE AND THIMBLE

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$
Finished, per doz	\$40.00	44.00
Nickel-plated, per doz	44.00	48.00

WITH FLANGE, NUT AND BENT COUPLING

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$
Finished, per doz	\$50.00	54.00
Nickel-plated, per doz	54.00	58.00

IRON PIPE



FIG. H-832

## FULLER REPAIRS

BALL



FIG. H-833

STEM WITH BALL



FIG. H-834

HANDLE



FIG. H-835

ECCENTRIC



FIG. H-836

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Fig. H-833—Per doz	.75	.75	1.00	1.25
Figs. H-834, H-835 and H-836—Per doz	3.00	3.00	4.00	6.00

FIG. H-837

## REPAIRS FOR COMPRESSION BIBBS AND COCKS

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Handles, per doz	\$1.25	1.50	1.75	2.50	4.50
Spindles, per doz	1.25	1.50	1.75	2.50	4.50
Caps, per doz	1.25	1.50	1.75	2.50	4.50
Valves, per doz	1.25	1.50	1.75	2.50	4.50

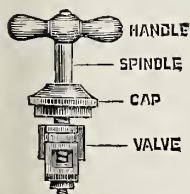


FIG. H-837

## FULLER BASIN COCKS

No. 0

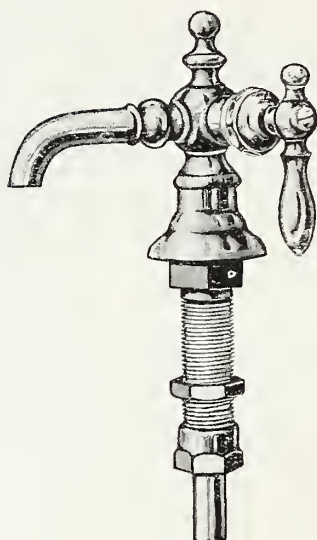


FIG. H-838

FIG. H-838

Nickel-plated, per doz.....	\$40.00
If with Ebony or Ivory Handles, add, per doz.....	12.00
If with China Handles, add, per doz .....	15.00

FIG. H-839

Nickel-plated, per doz.....	\$54.00
If with Ebony or Ivory Handles, add, per doz.....	12.00
If with China Handles, add, per doz .....	15.00

No. 0, WITH UNION

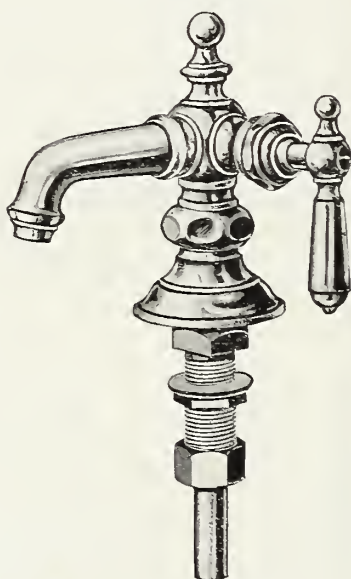


FIG. H-839

## FULLER BASIN COCKS

No. 1

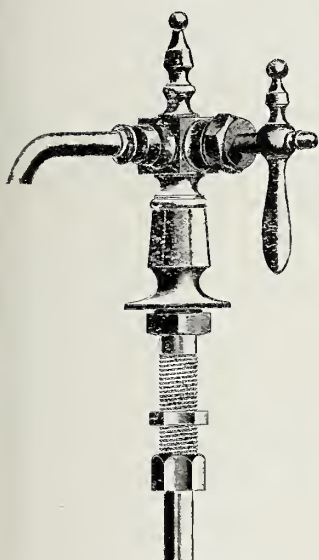


FIG. H-840

FIG. H-840

Nickel-plated, per doz.....	\$40.00
If with Ebony or Ivory Handles, add, per doz.....	12.00
If with China Handles, add, per doz .....	15.00

FIG. H-841

Nickel-plated, per doz.....	\$44.00
If with Ebony or Ivory Handles, add, per doz.....	12.00
If with China Handles, add, per doz.....	15.00

No. 2

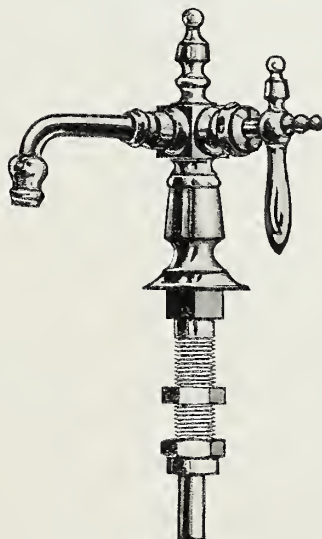


FIG. H-841



BASIN COCKS

NICKEL-PLATED BASIN COCK WITH  
CHINA HANDLE AND INDEX



FIG. H-842

FIG. H-843

Nickel-plated, each .....	\$14.00
If with Oval Soap Cup, add .....	2.00
If with Ebony or Ivory Handles, add .....	2.00
If with Round Body instead of Oval, deduct .....	1.00

FIG. H-842

China Handles, Lead  
Pipe Couplings, per doz \$81.00  
Metal Handles, Lead  
Pipe Couplings, per doz 66.00  
If with Union Body, add to  
the above list, per doz \$8.00

High Grade Finish, China  
Index "Hot" or "Cold,"  
Right or Left Hand, High  
Packed Cap.

FULLER DOUBLE BASIN  
COCK  
OVAL PATTERN, JEWEL CUP

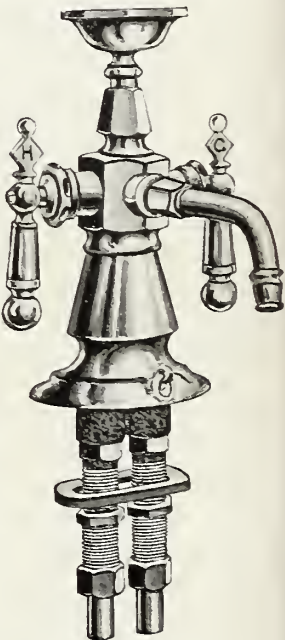


FIG. H-843

## FULLER DOUBLE SHAMPOO COCKS

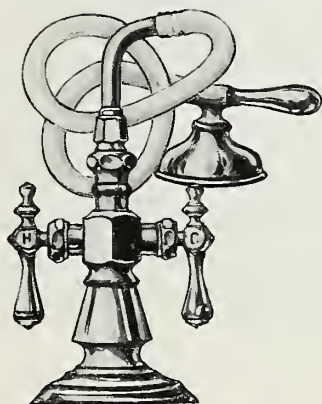


FIG. H-844

Nickel-plated, each

\$14.00

## COMBINATION BASIN AND SHAMPOO COCKS

No. 2—DOUBLE BASIN

No. 1—SINGLE BASIN

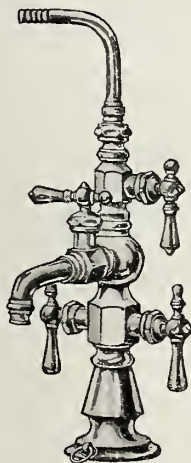


FIG. H-845

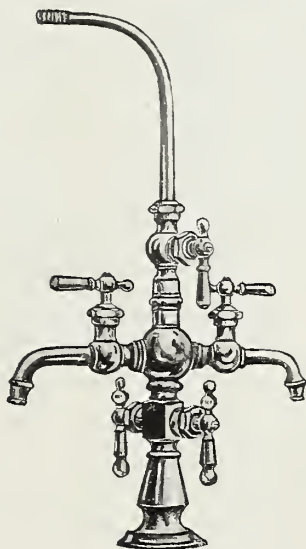


FIG. H-846

Fig. H-845—Nickel-plated, each	\$20.00
Fig. H-846—Nickel-plated, each	25.00
Add for Ebony or Ivory Handles, per Handle	1.00
Add for China Handles, per Handle	1.25

Rubber Hose extra.

## FULLER PANTRY COCKS

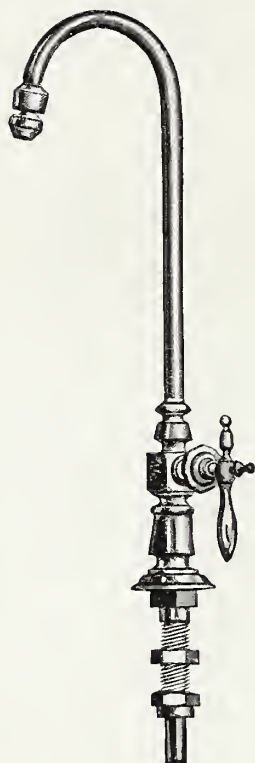


FIG. H-847

FIG. H-847

No. 1—Nickel-plated, Plain, per doz.....	\$42.00
No. 1—Nickel-plated, Hose End, per doz.....	45.00
No. 2—Nickel-plated, Plain, per doz.....	50.00
No. 2—Nickel-plated, Hose End, per doz.....	53.00
Add for Ebony or Ivory Handles, per doz.....	12.00
Add for China Handles, per doz.....	15.00

DOUBLE

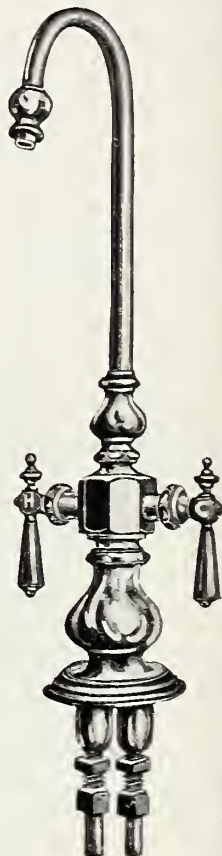


FIG. H-848

FIG. H-848

Nickel-plated, each.....	\$13.00
If with Ebony or Ivory Handles, each.....	15.00
If with China Handles, each.....	15.50

## FULLER BATH COCK

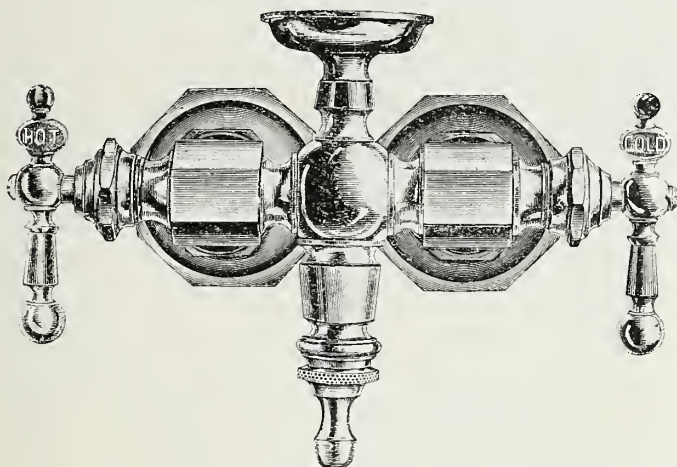
NO. 4 $\frac{1}{2}$ —WITH NICKEL-PLATED HANDLES

FIG. H-849

---

Nickel-plated, each ..... \$12.00

---

## BATH COCK COUPLINGS

NICKEL-PLATED—FOR IRON PIPE

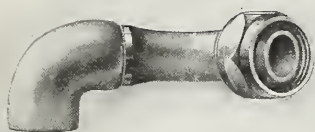


FIG. H-850



FIG. H-851

The following prices are to be added to the price of Double Bath Cocks with Rough Couplings for Lead Pipe.

---

Fig. H-850—Offset Coupling, for  $\frac{1}{2}$  or  $\frac{5}{8}$  inch Bath Cock, add, per pair ..... .75  
 Fig. H-851—Offset Ball Ell Coupling, for  $\frac{5}{8}$  inch Bath Cock, add, per pair ..... .75

---

Bath Cock Couplings are furnished tapped either  $\frac{1}{2}$  or  $\frac{3}{4}$  inch Iron Pipe Thread.

In ordering, specify size wanted.

## FULLER BATH COCK

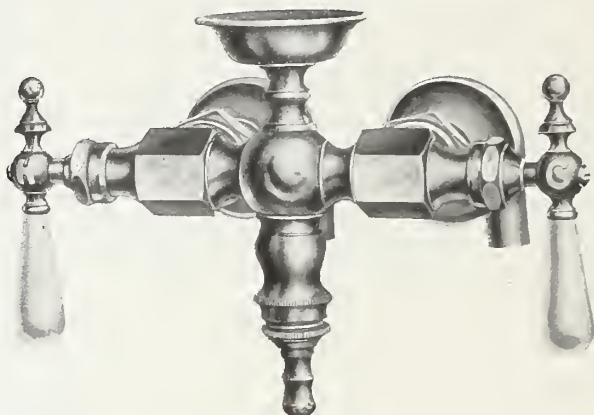
No. 4 $\frac{1}{2}$ —WITH CHINA HANDLES

FIG. H-853

Nickel-plated, each .....	\$14.50
If with Ebony or Ivory Handles, each .....	14.00

## FULLER COMBINATION SLOP SINK COCK

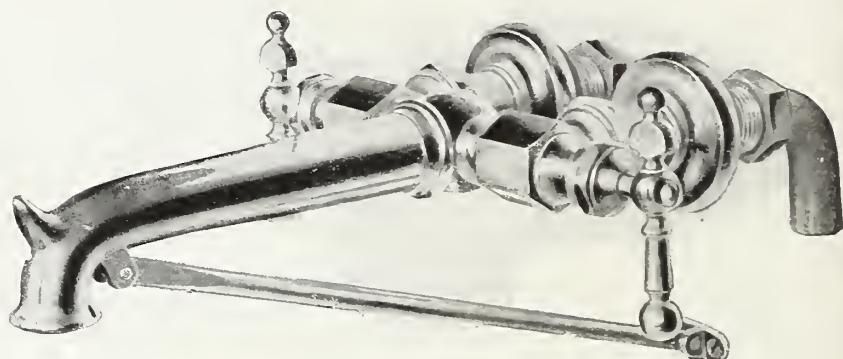


FIG. H-854

3 $\frac{3}{8}$  inches, center to center.

Finished or Nickel-plated, with Long Spout and Brace, each .....	\$9.00
Finished or Nickel-plated, with Short Spout, no Brace, each .....	7.50



## TELEGRAPH SELF-CLOSING WORK

## BASIN COCK

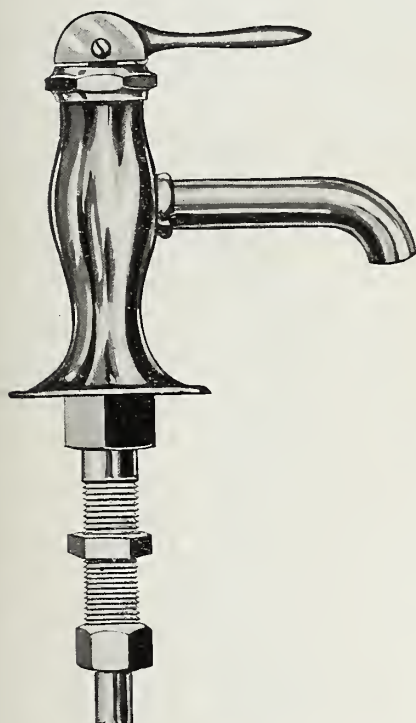


FIG. H-855

## BIBB, LEAD PIPE

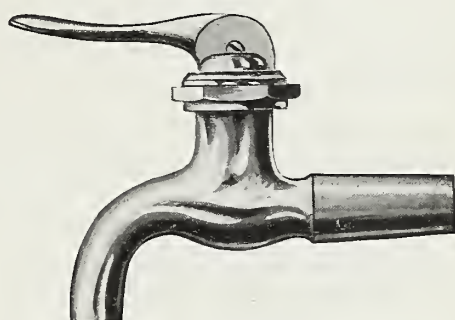


FIG. H-856

## BASIN AND PANTRY COCKS

Basin Cock, Small Pattern, Nickel-plated, per doz.	\$27.00
Basin Cock, Large Pattern, Nickel-plated, per doz.	34.00
Pantry Cock, Finished, per doz.	54.00
Pantry Cock, Nickel-plated, per doz.	64.00
Add for Hose End, per doz.	3.00

## BIBBS

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Plain Bibbs, L. P., Finished, per doz.	\$16.00	18.00	21.00	28.00	48.00
Plain Bibbs, L. P., Nickel-plated, per doz.	20.00	22.00	25.00	34.00	56.00
Plain Bibbs, I. P., Screw on Tail, Finished, per doz.	17.00	20.00	24.00	32.00	54.00
Plain Bibbs, I. P., Screw on Tail, N. P., per doz.	21.00	24.00	28.00	38.00	62.00
Plain Bibbs, I. P., with Shoulder, Finished, per doz.	16.00	18.00	21.00	28.00	48.00
Plain Bibbs, I. P., with Shoulder, N. P., per doz.	20.00	22.00	25.00	34.00	56.00
Plain Bibbs, Flange and Thimble, Finished, per doz.	22.00	26.00	30.00	42.00	62.00
Plain Bibbs, Flange and Thimble, N. P., per doz.	28.00	32.00	36.00	50.00	72.00
If without Thimble, deduct, per doz.	2.00	2.00	3.00	3.00	4.00
Bibbs with Detachable Shanks, add, per doz.	4.00	5.00	6.00	7.00	9.00

## DOHERTY SELF-CLOSING WORK

PLAIN BIBB, LEAD PIPE

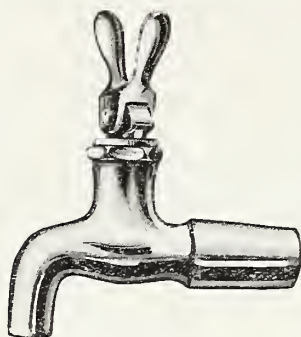


FIG. H-857

PLAIN BIBB, IRON PIPE

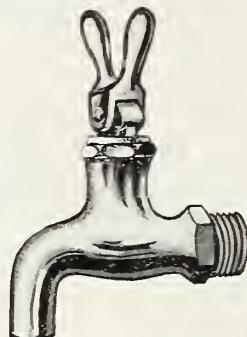


FIG. H-858

STOP, LEAD PIPE

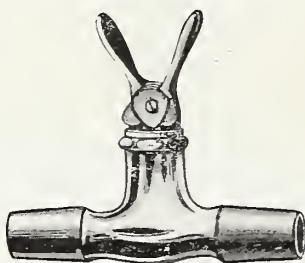


FIG. H-859

STOP, IRON PIPE

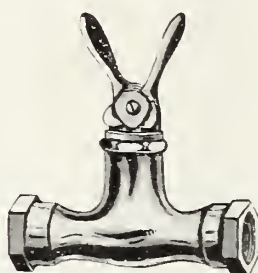


FIG. H-860

FIGS. H-857 AND H-858—PLAIN BIBBS FOR LEAD AND IRON PIPE

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished, per doz	\$26.00	27.00	30.00	37.00	60.00
Nickel-plated, per doz	32.00	33.00	36.00	44.00	70.00

(Not Illustrated)—PLAIN BIBBS, FLANGE AND THIMBLE

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished, per doz	\$32.00	34.00	38.00	54.00
Nickel-plated, per doz	38.00	40.00	44.00	61.00
For Hose Ends, add, per doz				\$4.00

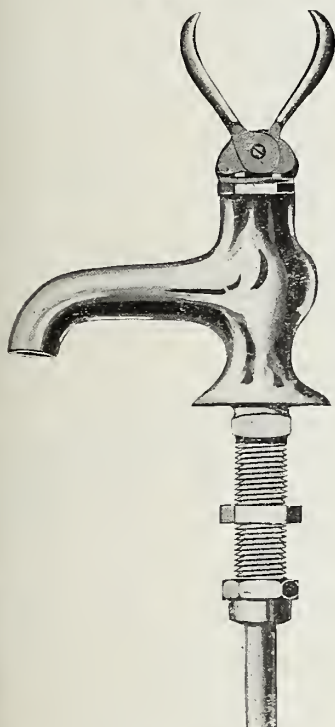
FIGS. H-859 AND H-860—STOPS FOR LEAD AND IRON PIPE

Size, inches	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	1
Finished, per doz	\$30.00	33.00	42.00	68.00
Nickel-plated, per doz	36.00	39.00	49.00	78.00

Both Ends I. P. Male, or L. and I. P., same list.

# DOHERTY SELF-CLOSING WORK

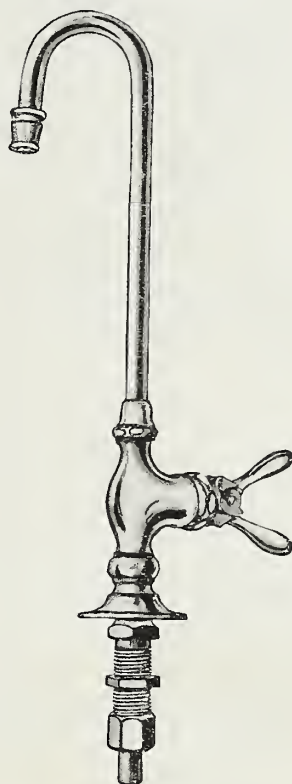
**BASIN COCK**



**FIG. H-861**

Finished or Nickel-plated, per doz \$48.00

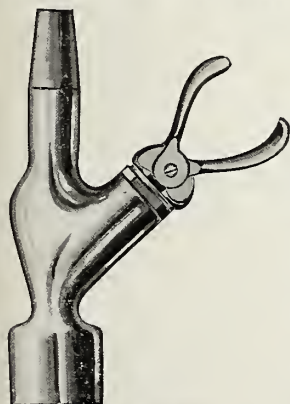
**PANTRY COCK**



**FIG. H-862**

Finished or Nickel-plated, per doz \$64.00  
 Finished or Nickel-plated, with  
 Hose End, per doz 67.00

**URINAL COCK—LEAD PIPE**



**FIG. H-863**

## DOHERTY SELF-CLOSING URINAL COCKS—LEAD OR IRON PIPE

**FIG. H-863**

Finished, per doz ----- \$38.00  
 Nickel-plated, per doz ----- 44.00

### URINAL COCKS—(Not Illustrated)

Finished with Flange and Thimble, per doz ---- \$46.00  
 Nickel-plated, with Flange and Thimble, per doz 52.00  
 Finished with Flange, Nut and Bent Coupling,  
 per doz ----- 54.00  
 Nickel-plated, with Flange, Nut and Bent  
 Coupling, per doz ----- 60.00

Iron Pipe, same list.

## MOORE'S PATENT SELF-CLOSING WORK

PLAIN BIBB, LEAD PIPE

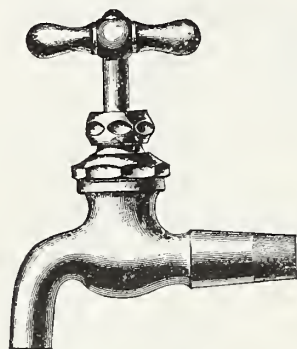


FIG. H-864

PLAIN BIBB, IRON PIPE, WITH SHOULDER

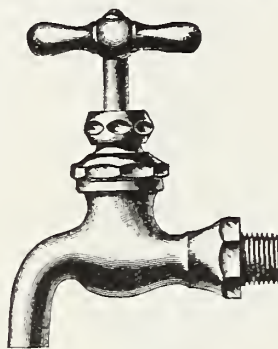


FIG. H-865

FIGS. H-864 AND H-865—PLAIN BIBBS FOR LEAD AND IRON PIPE

Size, inches .....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished, per doz .....	\$28.00	31.00	37.00
Nickel-plated, per doz .....	32.00	35.00	42.00

(Not Illustrated)—PLAIN BIBBS, FLANGE AND THIMBLE

Size, inches .....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished, per doz .....	\$33.50	36.50	44.00
Nickel-plated, per doz .....	37.50	40.50	48.00

For Hose Ends, add per doz. .... \$4.00

STOP, LEAD PIPE

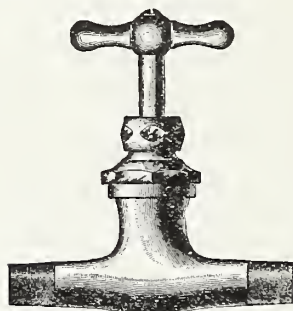


FIG. H-866

STOP, IRON PIPE

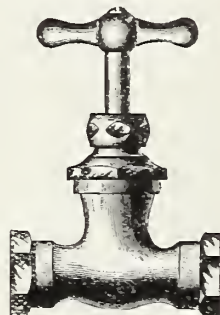


FIG. H-867

FIGS. H-866 AND H-867—STOPS FOR LEAD AND IRON PIPE

Size, inches .....	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Finished, per doz .....	\$32.00	35.00	41.00
Nickel-plated, per doz .....	36.00	39.00	46.00

Both Ends I. P. Male, or L. and I. P., same list.

MOORE'S PATENT SELF-CLOSING WORK  
PANTRY COCK.  $\frac{1}{2}$  SIZE

BASIN COCK.  $\frac{3}{8}$  ACTUAL SIZE



FIG. H-868

Nickel-plated, per doz..... \$48.00

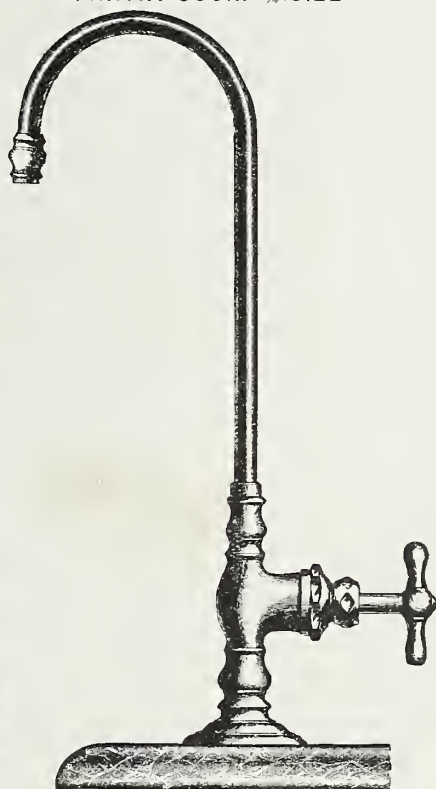


FIG. H-869

Finished or Nickel-plated, per doz. \$64.00  
Finished or Nickel-plated, with ☐ ☐  
Hose End, per doz..... 68.00

FIG. H-870

MOORE'S SELF-CLOSING URINAL  
COCKS

Finished, per doz..... \$33.00  
Nickel-plated, per doz..... 36.00

URINAL COCKS. (Not Illustrated.)

Finished with Flange and Thimble,  
per doz..... \$54.00  
Nickel-plated, with Flange and  
Thimble, per doz..... 60.00  
Finished with Flange, Nut and Bent  
Coupling, per doz..... 60.00  
Nickel-plated with Flange, Nut and  
Bent Coupling, per doz..... 66.00

URINAL COCK, LEAD PIPE

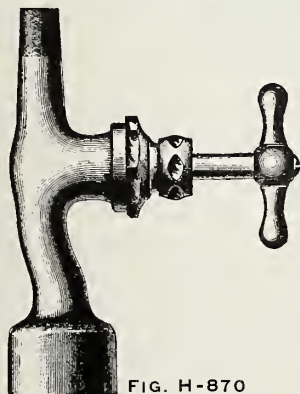


FIG. H-870

Iron Pipe, same list.



## BATH FIXTURE

IMPROVED NICKEL-PLATED BRASS BELL SUPPLY AND WASTE FIXTURE  
FOR ENAMELED IRON BATH TUBS  
CHINA TOPS ON HANDLES AND WASTE  
LOW BELL SUPPLY

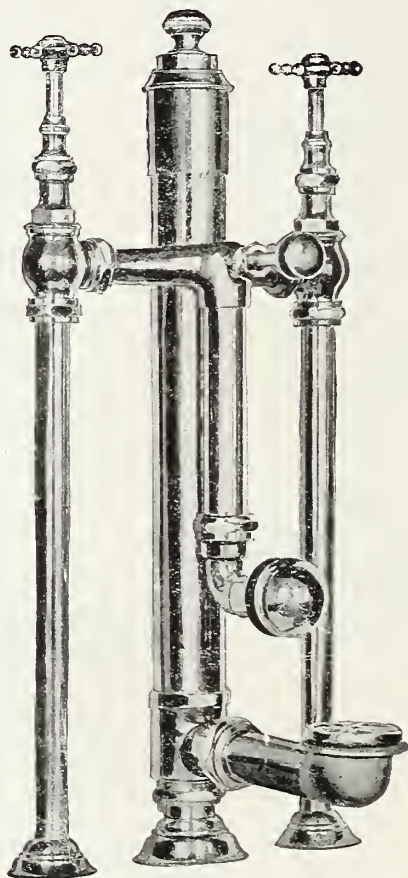


FIG. H-871

9½ inches Center to Center of Supplies.

With ½ inch Iron Pipe Supplies, per set.....	\$15.00
With ¾ inch Iron Pipe Supplies, per set.....	15.85
For Regular Solid Porcelain Tubs, add, per set.....	3.00
For Roman Solid Porcelain Tubs, add, per set.....	4.00
For Engraved Pearl Tops on Handles and Waste, add, per set.....	3.00
For Four Arm Porcelain Handles on Valves, add, per set.....	2.00
For Solid Porcelain Knob on Waste, add, per set.....	1.25

## BATH FIXTURE

NICKEL-PLATED SUPPLY AND WASTE FIXTURE FOR BATH TUBS

CHINA TOPS ON HANDLES AND WASTE

TOP NOZZLE SUPPLY

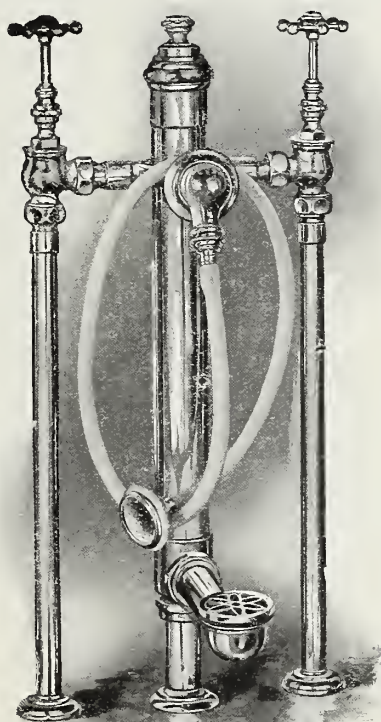


FIG. H-872

Imperial Nickel-plated Top Supply and Waste Fitting, China Indexes on Valves and Waste, Iron Pipe Size Supply Pipes, Rubber Tube and Shampoo Sprinkler.

As described, $\frac{1}{2}$ inch (Iron Pipe Size) Pipes, per set .....	\$19.25
As described, $\frac{3}{4}$ inch (Iron Pipe Size) Pipes, per set .....	20.25
As described, for Solid Porcelain Baths, add .....	4.00
For Rim Flange, add .....	2.00
For Unions on Supplies at Floor, add .....	1.00

## BATH FIXTURES

NICKEL-PLATED BRASS  
BATH WASTE

CONNECTED WASTE AND OVERFLOW

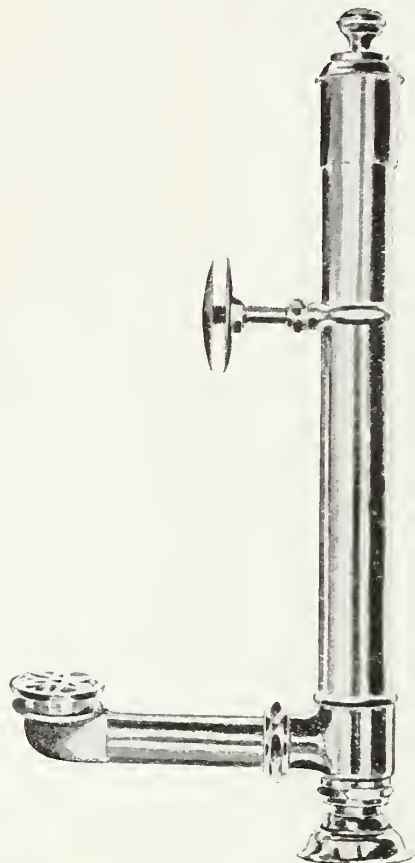


FIG. H-873



FIG. H-874

Nickel-plated 1½ inch Ell Top Connected  
Waste and Overflow, with Rubber Stop-  
per and Vented S Trap ..... \$6.50  
If without Vent. deduct ..... .50

FIG. H-873

Plain Top, Nickel-plated, each .....	\$6.25
China Top, Nickel-plated, each .....	6.50
Pearl Top, Nickel-plated, each .....	7.50
For Solid Porcelain Knob on Waste, add, each .....	1.25
For Four Arm Porcelain Handle on Waste, add, each .....	2.00
For Solid Porcelain Bath, add, each .....	1.65

## BATH FIXTURES

CONNECTED WASTE  
AND OVERFLOW

FIG. H-875

Nickel-plated 1  $\frac{3}{8}$  inch Connected Waste and Overflow, with Chain and Rubber Stopper.

Each ..... \$2.50

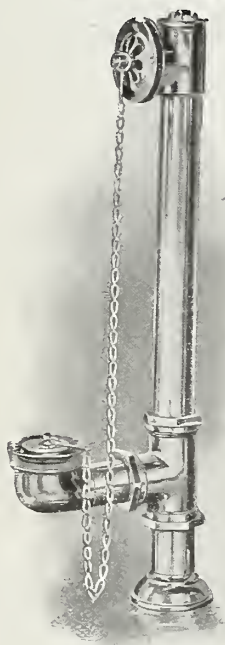
CONNECTED WASTE  
AND OVERFLOW

FIG. H-876

Nickel-plated 1  $\frac{1}{2}$  inch Tee Top Connected Waste and Overflow, with Chain and Rubber Stopper.

Each ..... \$3.25

STANDING OVERFLOW  
AND WASTE  
FOR PORCELAIN SINKS

FIG. H-877

N. P. for Pantry Sink, each ..... \$3.50  
N. P. for Kitchen Sink, each ..... 5.00

STANDING OVERFLOW AND WASTE  
FOR BASINS

FIG. H-878

Nickel-plated Standing Overflow and Waste.

With China Top, each ..... \$3.65  
Without China Top, each ..... 3.50  
With Pearl Top, each ..... 4.65  
For Solid Porcelain Lavatory, add ..... .80

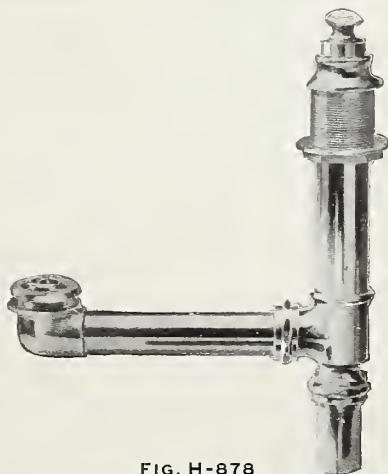


FIG. H-878

## CONTINUOUS WASTES

1 $\frac{1}{4}$  inch.

## FOR LAVATORIES

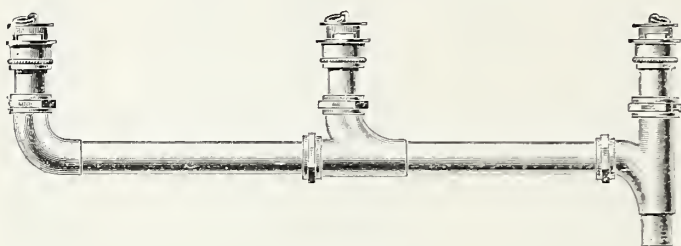


FIG. H-879

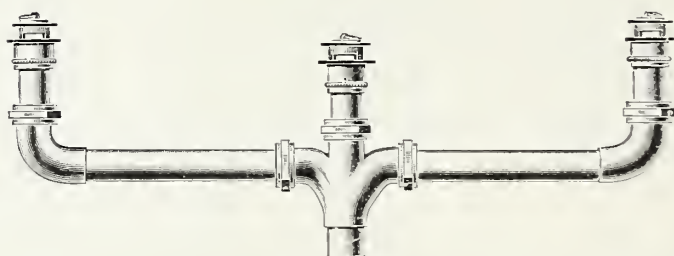


FIG. H-880

Can be made for any number of basins, Rough, Finished or Nickel-plated.

In ordering, give figure number, state for how many basins, and distance from center to center of basins.

	Nickel-		
	Rough.	Polished.	plated.
For 2 Basins, with 1 $\frac{1}{4}$ in. Brass "S" or "P" Trap, with Vent, each _	\$6.50	\$8.00	\$8.50
For 2 Basins, with 1 $\frac{1}{2}$ in. Brass "S" or "P" Trap, with Vent, each _	7.00	8.75	9.00
For 3 Basins, with 1 $\frac{1}{2}$ in. Brass "S" or "P" Trap, with Vent, each _	9.00	11.50	12.00
For 4 Basins, with 1 $\frac{1}{2}$ in. Brass "S" or "P" Trap, with Vent, each _	11.00	14.00	15.00
For 5 Basins, with 1 $\frac{1}{2}$ in. Brass "S" or "P" Trap, with Vent, each _	15.00	16.50	18.00
For 6 Basins, with 1 $\frac{1}{2}$ in. Brass "S" or "P" Trap, with Vent, each _	17.00	19.00	21.00

1 $\frac{1}{2}$  inch Wastes with 2 inch Traps can be furnished at higher figures.



## LAVATORY SUPPLY PIPES

STRAIGHT NICKEL-PLATED BRASS

PLAIN



FIG. H-881

WITH VALVE

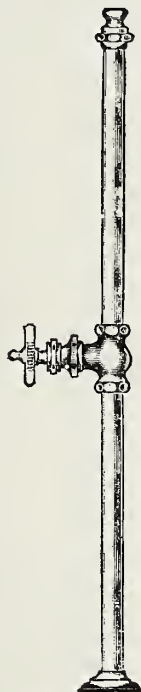


FIG. H-882

WITH BULB  
AIR  
CHAMBER

FIG. H-883

WITH BULB  
AIR CHAMBER  
AND VALVE

FIG. H-884

Fig. H-881—Per pair.....	\$3.00
Fig. H-882—Per pair.....	5.50
Fig. H-883—Per pair.....	5.00
Fig. H-884—Per pair.....	7.50

Prices include Floor Flanges.

## LAVATORY AND BATH SUPPLY PIPES

THREADED  $\frac{3}{8}$  INCH IRON PIPE  
ANGLE—NICKEL-PLATED BRASS

PLAIN



FIG. H-885

WITH VALVE



FIG. H-886

WITH BULB AIR CHAMBER



FIG. H-887

WITH BULB AIR CHAMBER AND VALVE



FIG. H-888

BATH COCK SUPPLY PIPES,  
IRON PIPE SIZE, BRASS TUBING,  
NICKEL-PLATED

OFFSET

OFFSET

WITH 45° ELBOW WITH BALL ELBOW



FIG. H-889



FIG. H-890

Fig. H-885—Per pair	\$2.50
Fig. H-886—Per pair	5.00
Fig. H-887—Per pair	4.50
Fig. H-888—Per pair	7.00

FIG. H-889

$\frac{1}{2}$ inch, per pair	\$6.50
------------------------------	--------

FIG. H-890

$\frac{1}{2}$ inch, per pair	\$7.00
------------------------------	--------

FIG. H-891

BASIN WASTE

Size, $1\frac{1}{4}$ inch	
Nickel-plated, with Coupling, each	\$2.00
Nickel-plated, with Coupling and Basin Plug, each	2.50



FIG. H-891

## LAVATORY BRACKETS

NICKEL-PLATED

N. P. CAST BRASS

BRASS BRACE—STEEL TOP

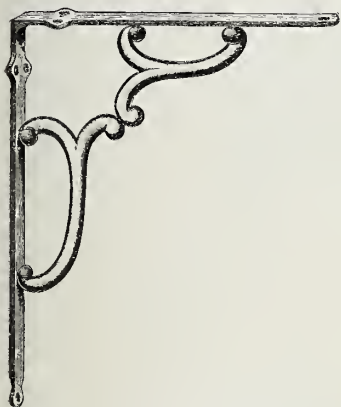


FIG. H-892

Size, inches	7x9	9x11	16x18
Per pair	\$3.00	4.00	8.00

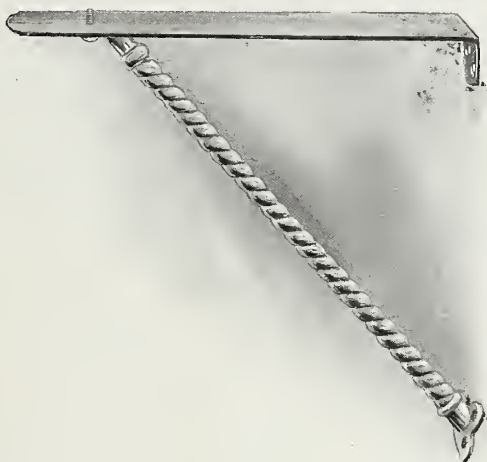


FIG. H-893

Size, inches	16x18
Per pair	\$2.50

N. P. CAST IRON

ALL STEEL

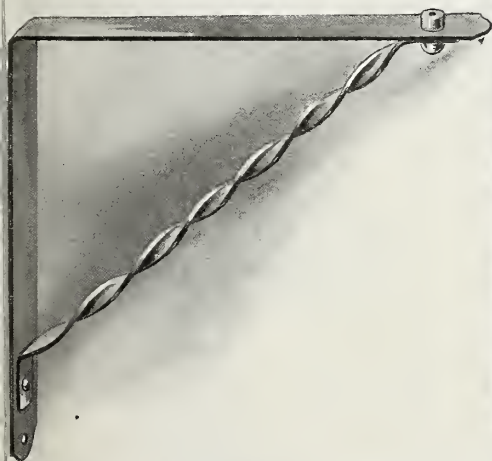


FIG. H-894

Size, inches	7x9	8x10	10x12	16x18
Per pair	.50	.60	.70	1.00



FIG. H-895

Size, inches	8x10	10x12	16x18	18x20
Per single doz	\$8.70	9.00	17.00	19.00

## CHAIN STAYS

No. 4



FIG. H-900

No. 3



FIG. H-899

No. 2



FIG. H-898

No. 1



FIG. H-897

No. 0



FIG. H-896

Number	0	1	2	3	4
Nickel-plated, per doz	\$2.50	2.50	3.75	4.25	6.50

No. 5



FIG. H-901

No. 6  
WITH JEWEL CUP

FIG. H-902

No. 7  
WITH JEWEL CUP

FIG. H-903

COCK HOLE COVER



FIG. H-904

Number	5	6	7
Nickel-plated, per doz	\$8.00	9.00	12.00
Cock Hole Covers for Basin, Nickel-plated, per doz	---	---	4.50
Cock Hole Covers for Bath, Nickel-plated, per doz	---	---	6.00

No. 8

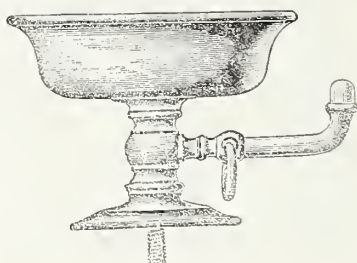


FIG. H-905

No. 9

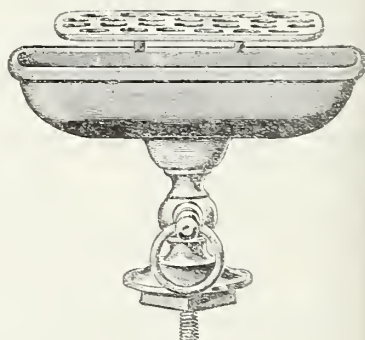


FIG. H-906

Fig. H-905—N. P., per doz	\$27.00
Fig. H-906—N. P., per doz	\$72.00

PLUMBERS' CHAINS

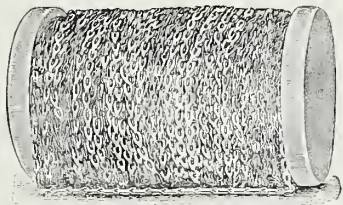


FIG. H-907

ON REELS 500 FEET  
PER 100 FEET

Number	00	0	1	2
Nickel-plated	\$3.60	4.30	5.20	6.40

IN PACKAGES OF 12 YARDS

Number	00	0	1	2
Nickel-plated, per package	\$1.25	1.50	1.85	2.30

SNAP CHAINS



FIG. H-908

Basin No. 0, Nickel-plated, per doz.	\$1.00
Bath No. 1, Nickel-plated, per doz.	1.70
Wash Tray No. 1, Nickel-plated, per doz.	1.50

SPLIT LINKS



FIG. H-909

"S" HOOKS



FIG. H-910

Figs. H-909 and H-910—Nickel-plated, per doz.	.25
-----------------------------------------------	-----



# BASIN CLAMPS

"SUPERIOR"

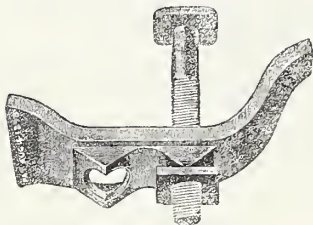


FIG. H-911

Per doz. ....\$1.00

"MAGIC"

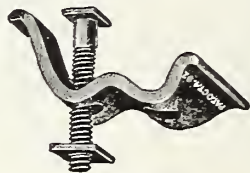


FIG. H-912

Per doz. ....\$2.50

"MUELLER"

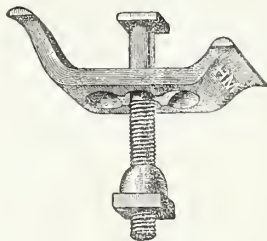


FIG. H-913

Per doz. ....\$1.00

NEVER SLIP

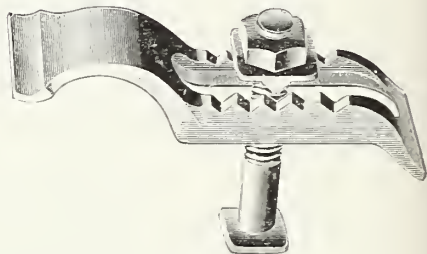


FIG. H-914

Per doz. ....\$1.00

RUBBER PLUG

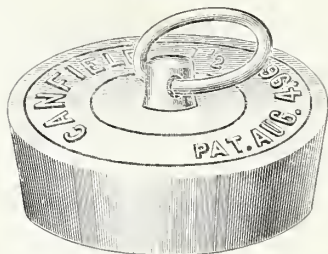


FIG. H-915

Size....	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Per doz.	\$1.20	1.20	1.20	1.25	1.50	2.00	3.00

SUCTION STOPPER



FIG. H-916

For Basin, per doz.	\$3.00
For Bath, per doz.	4.75

## PLUGS WITH METAL STOPPERS

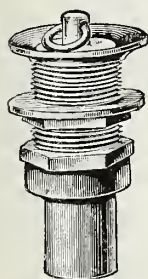
BASIN PLUG  
COMMON  
OVERFLOW

FIG. H-917

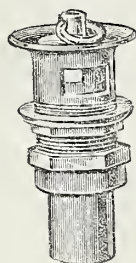
BASIN PLUG  
PATENT  
OVERFLOW

FIG. H-918

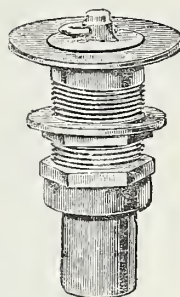
PLUG FOR SLATE,  
PORCELAIN OR  
SOAPSTONE SINKS

FIG. H-919

SINK PLUG  
FOR IRON  
PIPE WASTE

FIG. H-920

FIG. H-917

Size, inches	1	1 1/4
Finished, per doz	\$7.50	10.50
Nickel-plated, per doz	8.50	11.50

FIG. H-918

Size, inches	1	1 1/4
Finished, per doz	\$8.50	11.50
Nickel-plated, per doz	9.50	12.50

FIG. H-919

Size, inches	1	1 1/4	1 1/2	2
Finished, per doz	\$15.00	16.00	26.00	40.00
Nickel-plated, per doz	17.00	19.00	29.00	44.00

FIG. H-920

Size, inches	1	1 1/4	1 1/2	2
Finished, per doz	\$12.00	13.00	20.00	30.00
Nickel-plated, per doz	13.00	15.00	22.00	32.00

BATH PLUG



FIG. H-921

WASH TRAY PLUG



FIG. H-922

FIG. H-921

Size, inches	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Finished, per doz	\$2.00	2.50	3.00	4.00	7.00	15.00	18.00	36.00
Nickel-plated, per doz	2.50	3.00	3.50	4.50	8.00	17.00	21.00	40.00

FIG. H-922

Size, inches	1 1/4	1 1/2	2	2 1/2	3	4
Finished, per doz	\$6.00	7.00	10.00	17.00	22.00	44.00
Nickel-plated, per doz	7.50	8.75	13.00	20.00	25.00	50.00

# BASIN, SINK AND WASH TRAY PLUGS

## WITH RUBBER STOPPERS

BASIN PLUG—  
PATENT OVERFLOW

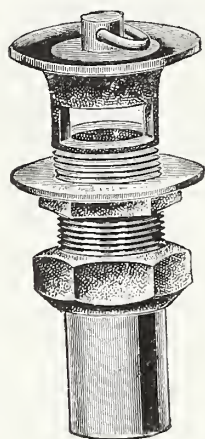


FIG. H-923

BASIN PLUG—  
COMMON OVERFLOW

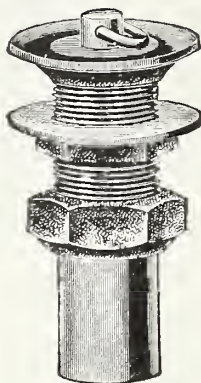


FIG. H-924

WASH TRAY PLUG—  
FOR PORCELAIN OR SLATE

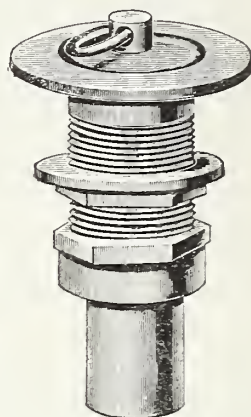


FIG. H-925

Size, inches			1	1¼
Fig. H-923—Finished, per doz.			\$5.00	7.50
Fig. H-923—Nickel-plated, per doz.			6.00	9.00
Size, inches			1	1¼
Fig. H-924—Finished, per doz.			\$4.50	7.50
Fig. H-924—Nickel-plated, per doz.			5.50	9.00
Size, inches	1	1¼	1½	2
Fig. H-925—Finished, per doz.	\$8.00	9.00	13.00	20.00
Fig. H-925—Nickel-plated, per doz.	9.00	10.00	15.00	22.50

BATH OR SINK PLUG

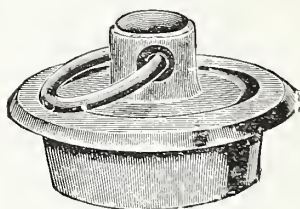


FIG. H-926

WASH TRAY PLUG

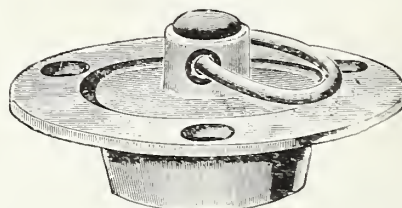


FIG. H-927

Size, inches	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Fig. H-926—Finished, per doz.	\$1.75	2.00	2.25	3.50	5.00	8.00	12.00	25.00
Fig. H-926—Nickel-plated, per doz.	2.25	2.50	2.75	4.00	6.00	11.00	16.00	30.00
Fig. H-927—Finished, per doz.	---	---	\$3.25	4.00	6.00	9.00	13.00	26.00
Fig. H-927—Nickel-plated, per doz.	---	---	4.25	5.00	7.50	12.00	17.00	31.00

## FLOOR STRAINERS AND GRATES

FLOOR STRAINER  
3 $\frac{3}{8}$  INCH  
OUTLET 2 INCH  
I. P. SIZE

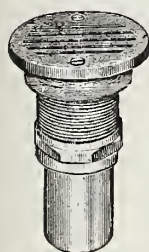


FIG. H-928

FIG. H-928

Nickel-plated, each ----- \$2.25

FIG. H-929

Outside diameter of Flange, 4 $\frac{7}{8}$  inches.  
Outside diameter of Tail-piece, 1 $\frac{1}{4}$  inches.

Finished and Nickel-plated, each - - - \$3.60

BRASS BELL TRAP  
WITH STRAINER  
FOR URINAL  
STALLS



FIG. H-929

## BRASS OVERFLOWS AND GRATES

FOR SLATE, SOAP STONE  
AND PORCELAIN SINKS



FIG. H-930

FIG. H-930

Finished, per doz. ----- \$48.00  
Nickel-plated, per doz. ----- 51.00

FIG. H-931

Nickel-plated, per doz. ----- \$21.00  
For Bent Coupling, add per doz. .... 2.00

BASIN GRATE

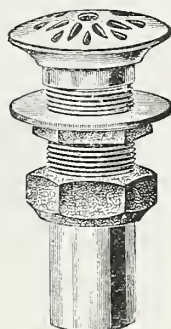


FIG. H-931

FOR PORCELAIN SLOP  
SINKS

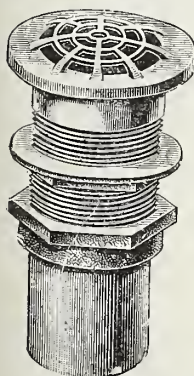


FIG. H-932

FIG. H-932

Finished, per doz. .... \$50.00  
Nickel-plated, per doz. .... 53.00

FIG. H-933

Finished, per doz. .... \$24.00  
Nickel-plated, per doz. .... 27.00

OVERFLOW—FOR PORCELAIN  
SINKS, WASH TRAYS, ETC.

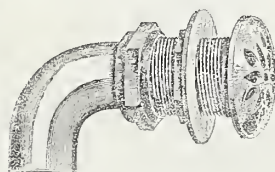


FIG. H-933



BRASS WASTE STRAINERS

NICKEL-PLATED

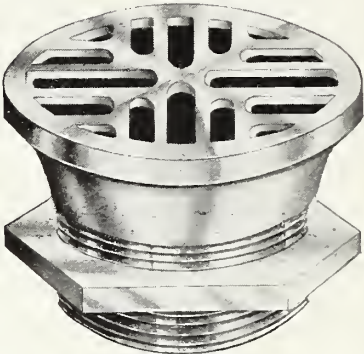


FIG. H-934

Finished, 3½ inch diameter of Face, 2 inch Outlet, each .....	\$2.00
Nickel-plated, 3½ inch diameter of Face, 2 inch Outlet, each .....	2.25

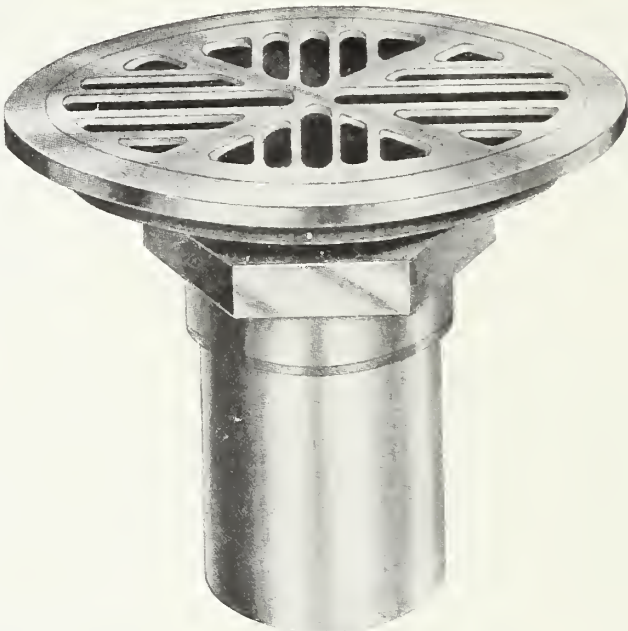


FIG. H-935

Nickel-plated, 6 inch diameter of Face, 2 inch Outlet, each .....	\$5.00
Nickel-plated, 7½ inch diameter of Face, 3 inch Outlet, each .....	7.00



## RAISED BRASS STRAINERS

WITH FLANGE



FIG. H-936

WITH TRAP SCREW



FIG. H-937

FOR IRON PIPE



FIG. H-938

Size, inches	2	2½	3	3½	4
Fig. H-936—Finished, per doz.	\$8.00	---	12.00	18.00	24.00
Fig. H-936—Nickel-plated, per doz.	10.00	---	15.00	22.00	30.00
Fig. H-937—Finished, per doz.	15.00	21.00	30.00	---	48.00
Fig. H-937—Nickel-plated, per doz.	17.00	24.00	34.00	---	54.00
Fig. H-938—Finished, per doz.	13.00	18.00	26.00	---	44.00
Fig. H-938—Nickel-plated, per doz.	15.00	21.00	30.00	---	50.00

URINAL STRAINER FOR BASE



FIG. H-939

URINAL STRAINER FOR TROUGH

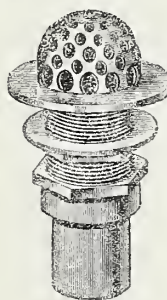


FIG. H-940

Size, inches	1¼	2		
Finished, per doz.	\$18.00	42.00	Finished, per doz.	\$51.00
Nickel-plated, per doz.	21.00	46.00	Nickel-plated, per doz.	54.00

PLAIN

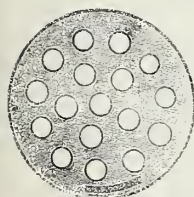


FIG. H-941

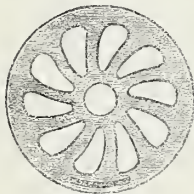
BRASS STRAINERS  
FANCY

FIG. H-942

CONVEX



FIG. H-943

Size, inches	¾	1	1¼	1½	2	2½	3	3½	4	5	6
Fig. H-941—Per doz.	.60	.85	1.20	1.45	1.80	2.40	3.00	3.60	4.80	9.00	12.00
Fig. H-942—Per doz.	---	.85	1.20	1.45	1.80	2.40	3.00	3.60	4.80	9.00	12.00
Fig. H-943—Per doz.	.95	1.40	1.80	2.40	3.00	3.60	4.20	4.80	6.00	12.00	15.00

## URINAL STALL FITTINGS

SCREW  
LOOSE HEAD

FIG. H-944

URINAL STALL  
BOLTS

FIG. H-945

URINAL STALL  
EXPANSION BOLT

FIG. H-946

Fig. H-944—All Brass, Nickel-plated Heads, per 100.....	\$5.00
Fig. H-945—Two Nickel-plated Heads, each.....	.30
Fig. H-946— $\frac{3}{16}$ x 1 inch, per doz.....	1.25
Fig. H-946— $\frac{3}{16}$ x $1\frac{1}{4}$ inch, per doz.....	1.25
Fig. H-946— $\frac{3}{16}$ x $1\frac{1}{2}$ inch, per doz.....	1.25
Fig. H-946— $\frac{3}{16}$ x 2 inch, per doz.....	1.25
Fig. H-946— $\frac{3}{16}$ x $2\frac{1}{2}$ inch, per doz.....	1.50
Fig. H-946— $\frac{3}{16}$ x 3 inch, per doz.....	1.50

## URINAL CONNECTIONS

SLIP JOINT



FIG. H-947

INLETS

IRON PIPE



FIG. H-948

Nickel-plated, each..... .95

Nickel-plated, each..... .80

FLANGE AND THIMBLE

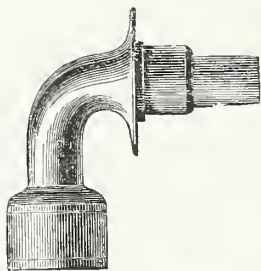


FIG. H-949

Finished, each..... \$2.00  
Nickel-plated, each..... 2.50

THREADED BRASS ROD



FIG. H-950

$\frac{1}{4}$  inch, per foot..... .30

NUT



FIG. H-951

Finished, per doz..... .45  
Nickel-plated, per doz..... .45

## URINAL STALL FITTINGS

## INLETS WITH FLANGE, NUT AND BENT COUPLING

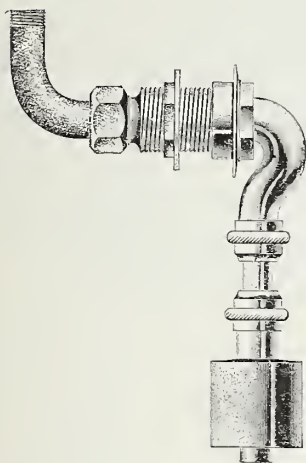


FIG. H-952

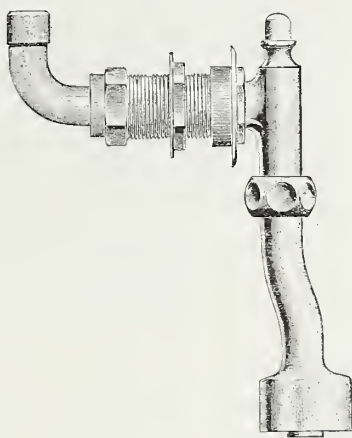


FIG. H-953

Nickel-plated, each ..... \$2.60

Nickel-plated, each ..... \$2.40

## INLET

## WITH FLANGE, NUT AND BENT COUPLING

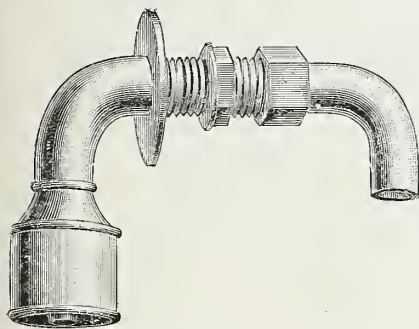


FIG. H-954

Finished, each ..... \$1.75

Nickel-plated, each ..... 2.00

## OUTLET

## WITH FLANGE, NUT AND BENT COUPLING

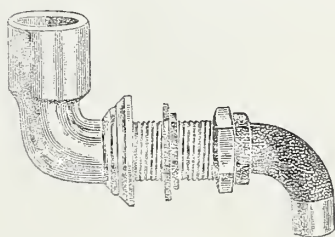


FIG. H-955

Finished, Size  $1\frac{1}{4}$ , each ..... \$2.35

Nickel-plated, Size  $1\frac{1}{4}$ , each ..... 2.50

If with Cleanout, add, each ..... .50

## URINAL STALL FITTINGS

## Brass Urinal Traps

## ADJUSTABLE FLANGE, NUT AND BENT COUPLING

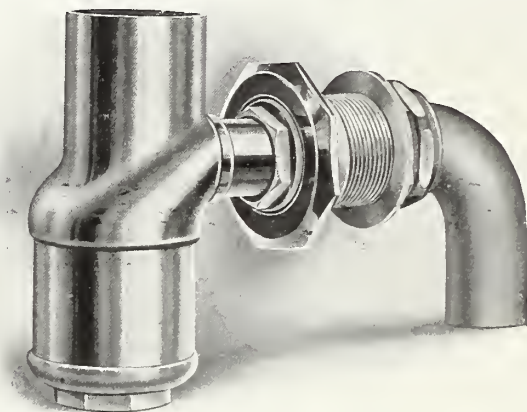


FIG. H-956

Finished, each	-----	\$3.90
Nickel-plated, each	-----	3.90

## BENT COUPLING AND VENT

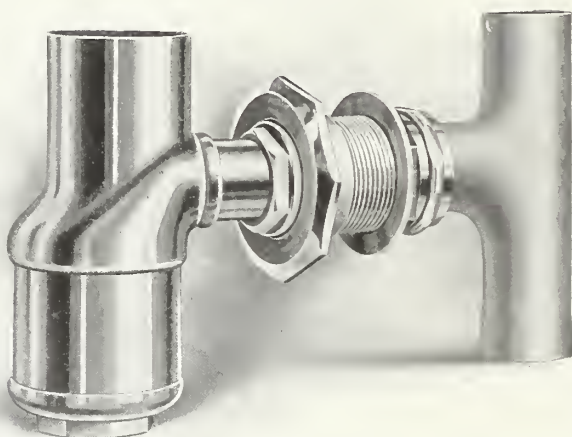


FIG. H-957

Finished, each	-----	\$4.20
Nickel-plated, each	-----	4.20

These Traps can be adjusted and all Joints made tight from Front of Stall Back; open space back of Marble not required.

## TOILET ROOM DOOR TRIMMINGS

### CLOSET DOOR INDICATOR BOLT

OUTSIDE VIEW

INSIDE VIEW

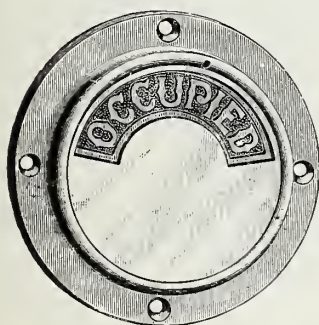


FIG. H-958

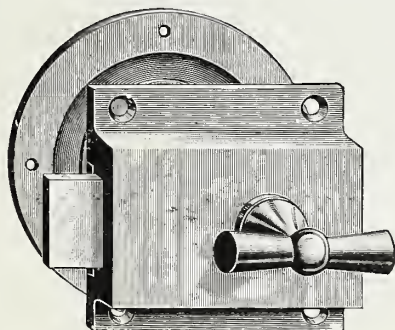


FIG. H-959

Finished or Nickel-plated, each ..... \$2.25

### CLAMP DOOR STRIKE

### STALL HOOKS

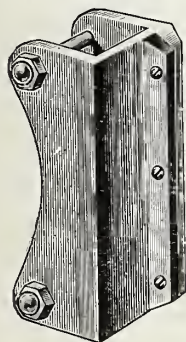


FIG. H-960

SINGLE

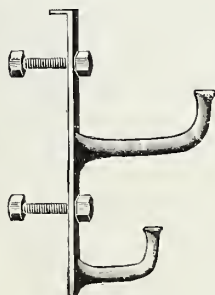


FIG. H-961

DOUBLE

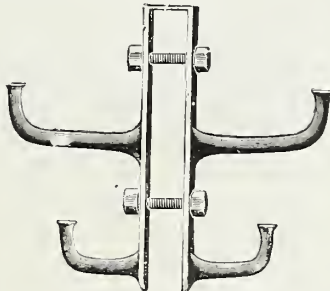


FIG. H-962

FIG. H-960

Finished or Nickel-plated, each ..... \$1.25

Can be had with lock hole at same price.

FIG. H-961

Finished, each ..... \$1.25

Nickel-plated, each ..... 1.25

FIG. H-962

Finished, each ..... \$2.00

Nickel-plated, each ..... 2.00

When ordering any of the above fittings, be sure to mention thickness of material in connection with which same are to be used.



## TOILET ROOM DOOR TRIMMINGS

PLAIN HINGE

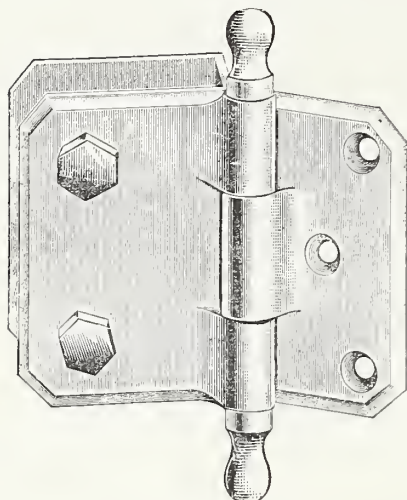


FIG. H-963

Finished or Nickel-plated, per pair \$4.00

RIGHT OR LEFT WING CLAMP

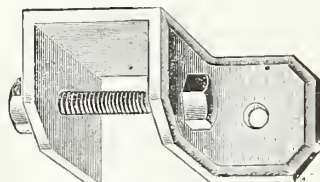


FIG. H-965

Finished, each ..... \$1.25  
 Nickel-plated, each ..... 1.50

STALL ANGLE

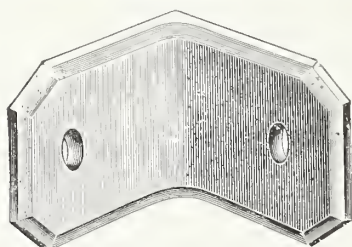


FIG. H-967

Finished, each ..... .50  
 Nickel-plated, each ..... .60

SPRING HINGE, SINGLE ACTION

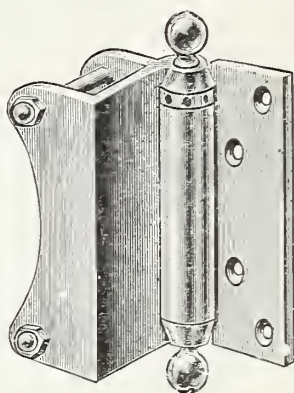


FIG. H-964

Finished or Nickel-plated, per pair.. \$6.00

POCKET STALL CLAMP

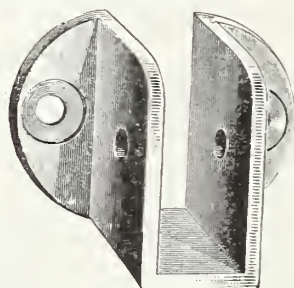


FIG. H-966

Finished or N. P. including one bolt.

For partitions  $\frac{7}{8}$  to  $1\frac{1}{4}$  in. thick, each .70  
 For partitions  $1\frac{1}{2}$  to 2 in. thick, each.. .80

PERFORATED BRASS WASHDOWN  
PIPE WITH STOP

FIG. H-968

	Rough.	Fin. or N. P.
$\frac{3}{8}$ in. I. P., per foot....	.30	.36
$\frac{1}{2}$ in. I. P., per foot....	.35	.40
$\frac{3}{4}$ in. I. P., per foot....	.44	.56
$\frac{3}{8}$ in. I. P. Caps, each ..	.10	.16
$\frac{1}{2}$ in. I. P. Caps, each ..	.12	.18
$\frac{3}{4}$ in. I. P. Caps, each ..	.16	.22

When ordering the above fittings, it is essential that the thickness of the material in connection with which they are to be used, be mentioned.

## URINAL AND CLOSET STALL FITTINGS

## BRASS RAILING STANDARDS



FIG. H-969



FIG. H-970



FIG. H-971



FIG. H-972

Nickel-plated, each\_ \$3.30    Nickel-plated, each\_ \$3.40    Nickel-plated, each\_ \$3.30    Nickel-plated, each\_ \$3.80

Sockets for above are made for  $\frac{7}{8}$  inch, 1 inch,  $1\frac{1}{8}$  inch,  $1\frac{1}{4}$  inch Marble. Always state thickness of Marble both stile and partition. Height of above, 12 inches from top of Marble to center of top rail. Top rail branches take  $1\frac{1}{4}$  inch O. D. railing. Outside diameter of Standards,  $1\frac{1}{4}$  inch.



FIG. H-973



FIG. H-974



FIG. H-975



FIG. H-976

Nickel-plated, each\_ \$2.30    Nickel-plated, each\_ \$2.40    Nickel-plated, each\_ \$2.40    Nickel-plated, each\_ \$2.80



FIG. H-977, with peg furnished when ordered instead of Flange with screw holes.

The above Urinal Legs are made for  $\frac{7}{8}$  inch, 1 inch,  $1\frac{1}{8}$  inch,  $1\frac{1}{4}$  inch Marble. Always state thickness of Marble, both stile and partition. Height of Legs, 12 inches from floor to bottom of Marble. Outside diameter of Legs,  $1\frac{1}{4}$  inches.

## BRASS TRAP SCREWS

REGULAR



FIG. H-978

WITH PROJECTING FLANGE



FIG. H-979

WITH SOCKET



FIG. H-980

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Fig. H-978—Finished, per doz.	\$1.80	2.25	2.50	3.00	4.00	7.00
Fig. H-978—Nickel-plated, per doz.	4.00	4.50	5.00	6.00	7.50	11.00
Size, inches	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5	6
Fig. H-978—Finished, per doz.	\$10.00	15.00	18.00	20.00	27.50	42.50
Fig. H-978—Nickel-plated, per doz.	15.00	20.00	23.50	26.00	36.50	54.50
Size, inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	5
Fig. H-979—Finished, per doz.	\$11.00	14.50	20.00	23.50	26.00	35.50
Fig. H-979—Nickel-plated, per doz.	15.50	19.50	26.00	30.50	35.00	47.50
Size, inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	
Fig. H-980—Finished, per doz.	\$7.00	10.00	15.00	18.00	20.00	
Fig. H-980—Nickel-plated, per doz.	11.00	15.00	20.00	23.50	26.00	

TRAP SCREW WITH STRAIGHT COUPLING

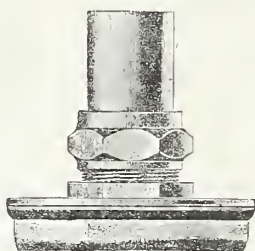


FIG. H-981

TRAP SCREW WITH BENT COUPLING



FIG. H-982

Size, inches	3	$3\frac{1}{2}$	4	5
Fig. H-981—Finished, per doz.	\$21.00	25.00	28.00	35.50
Fig. H-981—Nickel-plated, per doz.	28.50	33.50	38.00	50.50
Size, inches	3	$3\frac{1}{2}$	4	5
Fig. H-982—Finished, per doz.	\$28.00	32.50	36.00	45.50
Fig. H-982—Nickel-plated, per doz.	36.50	42.00	48.00	61.50

## TRAP SCREW FERRULES

IRON BODY,  
BRASS  
TRAP  
SCREW

FIG. H-983

BRASS BODY  
AND  
TRAP  
SCREW

FIG. H-984

WITH  
STRAIGHT  
VENT  
COUPLING

FIG. H-985

WITH  
BENT  
VENT  
COUPLING

FIG. H-986

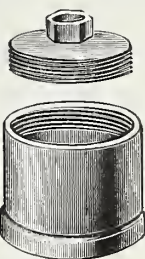
EXTRA HEAVY,  
IRON BODY,  
BRASS COVER  
(N. Y. Regulation.)

FIG. H-987

Size, inches	2	3	4	5	6
Fig. H-983—Each	.30	.40	.50	.90	1.10
Fig. H-984—Per doz	\$10.00	18.00	24.00	48.00	69.00
Fig. H-985—Straight Coupling, 1½ inch, per doz	26.00	26.00	38.00	62.00	85.00
Fig. H-986—Bent Coupling, 1½ inch, per doz	33.00	33.00	46.00	72.00	95.00
Fig. H-987—Net Prices on Application.					

## BRASS END FERRULES

PLAIN



FIG. H-988

REDUCING



FIG. H-989

WITH HUB



FIG. H-990

EIGHTH BEND



FIG. H-991

EIGHTH BEND  
WITH HUB

FIG. H-992

QUARTER BEND



FIG. H-993

Size, inches	2	3	4	5	6
Fig. H-988—Per doz	\$5.00	10.00	15.00	24.00	36.00
Fig. H-989—Per doz.					
(2 x 1½ inches)	5.00				
Fig. H-990—Per doz	8.00	13.00	16.00		
Fig. H-991—Per doz	12.00		24.00		
Fig. H-992—Per doz	12.00		24.00		
Fig. H-993—Per doz	15.00		27.00		



## BRASS SOLDERING NIPPLES

PLAIN BRASS COUPLING



FIG. H-994

STRAIGHT-MALE



FIG. H-995

STRAIGHT-FEMALE



FIG. H-996

FIG. H-994

Size, inches	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
Per dozen	\$4.00	4.50	5.00	6.50	8.00	12.00	18.00	24.00	36.00

FIGS. H-995 AND H-996

Size, inches	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Male or Female, per dozen	\$2.25	2.25	2.75	3.50	5.00	6.50	10.00	12.50	18.00

STRAIGHT

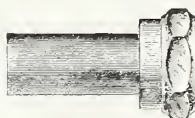


FIG. H-997

## BRASS SOLDERING UNIONS

BENT

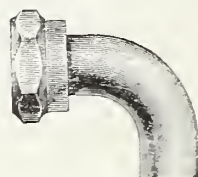


FIG. H-998

FIG. H-997

Size, inches	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Per dozen	\$4.00	4.00	4.00	4.50	6.00	8.00	12.00	15.00	21.00

FIG. H-998

Size, inches	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Per dozen	\$5.00	5.00	5.00	6.50	9.00	11.00	16.00	22.00	30.00

## SOLDERING NIPPLES AND UNIONS

(Called also Vent Couplings)

GROUND JOINT

STRAIGHT, I. S. THREAD

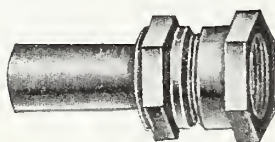


FIG. H-999

STRAIGHT, O. S. THREAD

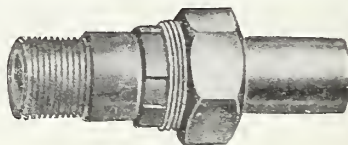


FIG. H-1000

FIGS. H-999 AND H-1000

Size, inches	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Straight, per dozen	\$8.00	9.50	12.00	14.50	20.50	26.50	38.50

BENT, I. S. THREAD

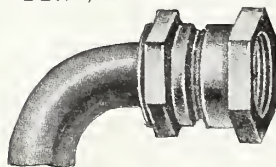


FIG. H-1001

FIG. H-1001

Size, inches	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Bent, per dozen	\$9.00	11.00	14.50	17.50	23.50	31.50	44.50



## BRASS BOILER COUPLINGS

## STRAIGHT—FOR LEAD PIPE

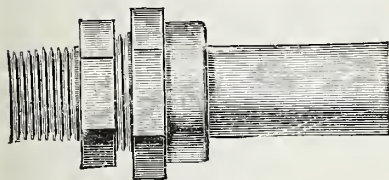


FIG. H-1002

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1
Plain Face, per doz	\$7.50	8.00	11.00
Ground Face, per doz	8.50	9.00	12.50

FIG. H-1003

Plain Face, per doz	\$8.50	9.00	12.00
Ground Face, per doz	9.50	10.00	13.50

$\frac{3}{4}$  inch, per set, (3 Bent and 1 Straight), Plain Face, \$2.50; Ground Face, \$2.75

## BENT—FOR LEAD PIPE

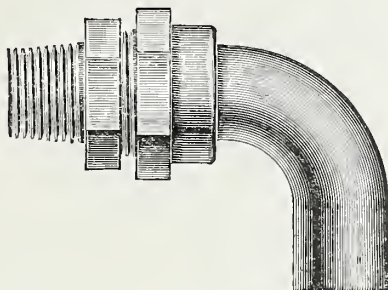


FIG. H-1003

## STRAIGHT—FOR IRON PIPE—MALE

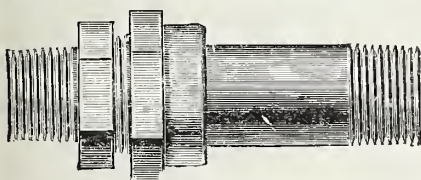


FIG. H-1004

Size, inches	$\frac{3}{4}$	1
Plain Face, per doz	\$10.00	14.00
Ground Face, per doz	11.00	15.50

FIG. H-1005

Plain Face, per doz	\$11.00	15.00
Ground Face, per doz	12.00	16.50

$\frac{3}{4}$  inch, per set, (3 Bent and 1 Straight), Plain Face, \$3.00; Ground Face, \$3.25.

List prices on I. P. Boiler Couplings, Female Thread, same as above.

## BENT—FOR IRON PIPE—MALE

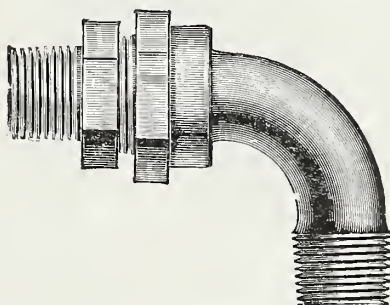


FIG. H-1005

## WATER BACK COUPLINGS

## STRAIGHT, LEAD PIPE

Female.

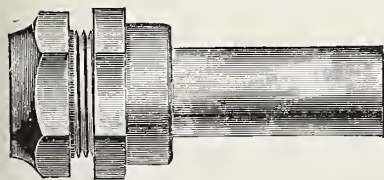


FIG. H-1006

Size, inches	$\frac{3}{4}$	1
Plain Face, per doz	\$7.00	10.00
Ground Face, per doz	8.00	11.50

FIG. H-1007

Plain Face, per doz	\$8.00	11.00
Ground Face, per doz	9.00	12.50

## BENT, LEAD PIPE

Female.

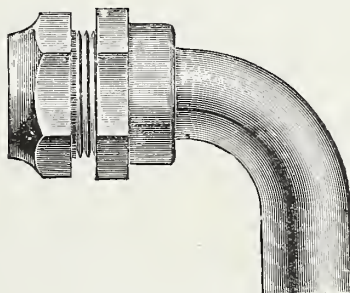


FIG. H-1007

## GALVANIZED IRON BOILER FITTINGS

No. 1

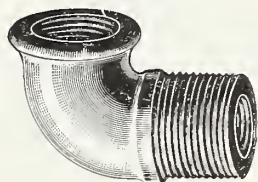


FIG. H-1008

No. 2

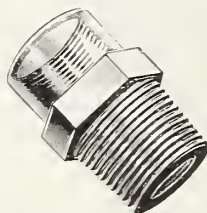


FIG. H-1009

No. 3

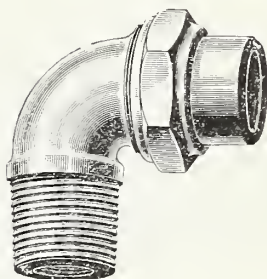


FIG. H-1010

No. 4

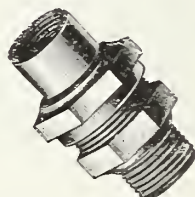


FIG. H-1011

No. 1—Boiler Elbow (1 inch Male, tapped $\frac{1}{2}$ inch), with $\frac{1}{2}$ inch Outlet, each.....	.15
No. 1A—Boiler Elbow (1 inch Male, tapped $\frac{1}{2}$ inch), with $\frac{3}{4}$ inch Outlet, each ..	.15
No. 2—Boiler Socket (1 inch Male, tapped $\frac{1}{2}$ inch), with $\frac{1}{2}$ inch Outlet, each.....	.15
No. 2A—Boiler Socket (1 inch Male, tapped $\frac{1}{2}$ inch), with $\frac{3}{4}$ inch Outlet, each..	.15
No. 3—Union Boiler Elbow (1 inch Male, tapped $\frac{1}{2}$ inch), with $\frac{1}{2}$ inch Union, each .....	.40
No. 3A—Union Boiler Elbow (1 inch Male, tapped $\frac{1}{2}$ inch), with $\frac{3}{4}$ inch Union, each .....	.45
No. 4—Union Boiler Socket (1 inch Male, tapped $\frac{1}{2}$ inch), with $\frac{1}{2}$ inch Union, each .....	.40
No. 4A—Union Boiler Socket (1 inch Male, tapped $\frac{1}{2}$ inch), with $\frac{3}{4}$ inch Union, each .....	.45

## A SET OF BOILER COUPLINGS COMPRISES:

One Elbow (1 inch Male, tapped  $\frac{1}{2}$  inch), with  $\frac{3}{4}$  inch Outlet.  
 Two Elbows (1 inch Male x  $\frac{3}{4}$  inch Blank), with  $\frac{3}{4}$  inch Outlet.  
 One Socket (1 inch Male x  $\frac{3}{4}$  inch Blank), with  $\frac{3}{4}$  inch Outlet.

Specify if wanted with or without Union.

## LAVATORY TRAPS

FIGS. H-1012 AND H-1013

## "BENNOT" GLOBE TRAPS

Nickel-plated, with pipe to floor,  
and P. O. Plug attached.

Size, inches-----	1¼	1½
Fig. H-1012—		
No Vent, each-----	\$4.00	4.75
Fig. H-1013—		
With Vent to Wall, each-----	4.75	5.50
If without P. O. Plug, deduct-----	.25	.25

The "Bennot" has a sure seal  
against back pressure.

The Cleanout Cap on the side  
permits free access to the interior  
for cleaning.

Any of the above styles can be  
furnished to order with Iron Pipe  
Size Waste and Vent Pipe.

Prices on application.

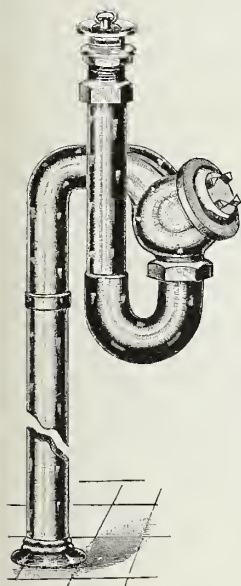


FIG. H-1012



FIG. H-1013

FIG. H-1014

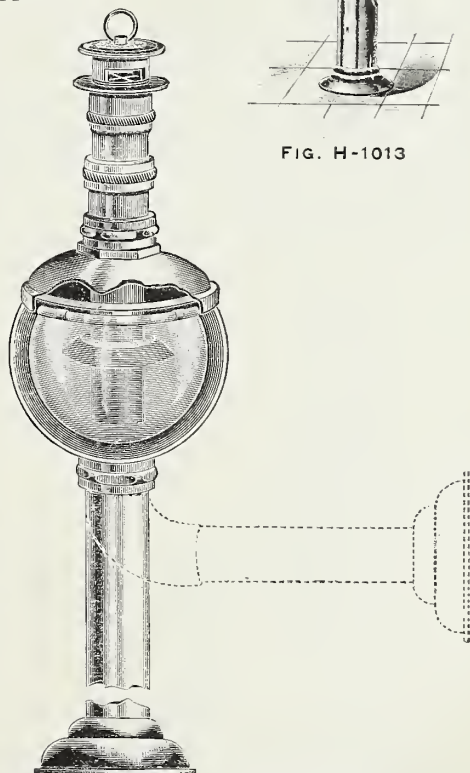
ANTI-SYPHON RADCLIFFE DRAWN  
METAL LAVATORY TRAP

## NICKEL-PLATED

1¼ inch Nickel-plated S or P-----	\$6.00
1½ inch Nickel-plated S or P-----	7.00

Outside shell heavy drawn brass.

Inner globe seamless spun aluminum.

FIG. H-1014  
Sectional Cut.

“KING” NON-SYPHONING TRAPS

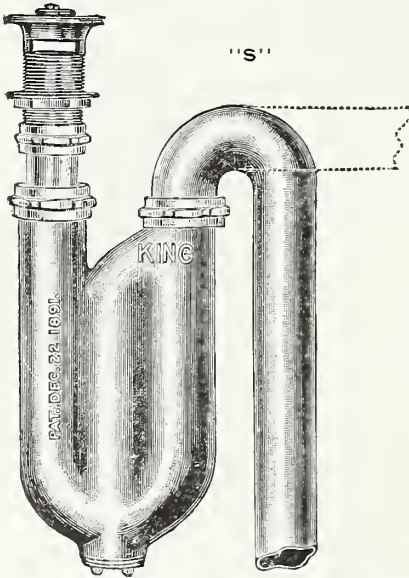


FIG. H-1015



FIG. H-1016

FIGS. H-1015 AND H-1016—"S" OR ½ "S"

FIG. H-1015—With P. O. Basin Plug, Extension and Floor or Wall Plate.

Size, inches.....	1¼	1½	2
Fig. H-1015—Brass Trap, Nickel-plated S or ½ S, each .....	\$5.00	5.50	.....
Fig. H-1015—With N. P. Vent to Wall, add, each.....	.80	1.00	.....
Fig. H-1016—Lead Trap, S or ½ S, each.....	1.25	1.50	2.09

"S" PLAIN, WASTE TO FLOOR

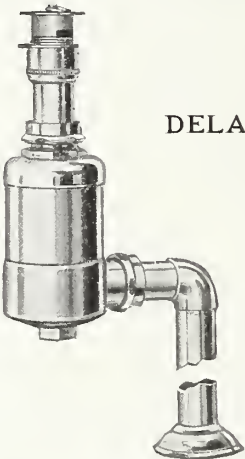


FIG. H-1017

½ "S" VENTED, WASTE TO WALL

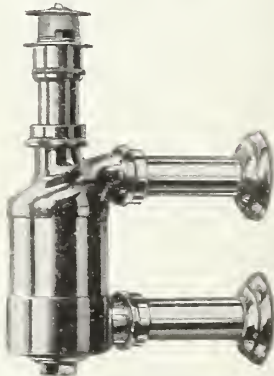


FIG. H-1018

DELANY TRAPS

Size, inches.....	1¼	1½	2
Fig. H-1017—Nickel-plated, Plain, S or ½ S, each.....	\$4.70	5.50	.....
Fig. H-1018—Nickel-plated, with Vent, S or ½ S, each .....	5.00	6.00	.....



## ELIPTIC TRAPS

## NICKEL-PLATED

WASTE TO FLOOR  
PLAIN

FIG. H-1019

## FIG. H-1019—NO VENT

1 $\frac{1}{4}$ inch, each .....	\$3.30
1 $\frac{1}{2}$ inch, each .....	4.00

## FIG. H-1020—VENTED

1 $\frac{1}{4}$ inch, each .....	\$4.50
1 $\frac{1}{2}$ inch, each .....	5.20

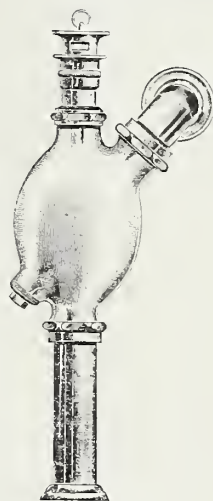
WASTE TO FLOOR  
VENTED

FIG. H-1020

## NICKEL-PLATED

WASTE TO WALL  
PLAIN

FIG. H-1021

## FIG. H-1021—NO VENT

1 $\frac{1}{4}$ inch, each .....	\$3.30
1 $\frac{1}{2}$ inch, each .....	4.00

## FIG. H-1022—VENTED

1 $\frac{1}{4}$ inch, each .....	\$4.50
1 $\frac{1}{2}$ inch, each .....	5.20

WASTE TO WALL  
VENTED

FIG. H-1022



BRASS LAVATORY TRAPS

"S" PLAIN



FIG. H-1023

"S" VENTED



FIG. H-1024

1¼ inch, Nickel-plated, each	----	\$2.50
1½ inch, Nickel-plated, each	----	3.25

1¼ inch, Nickel-plated, each	-----	\$2.75
1½ inch, Nickel-plated, each	-----	3.50

"P" PLAIN

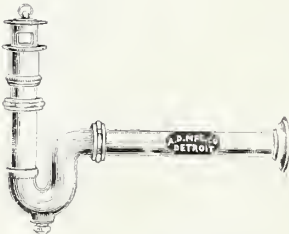


FIG. H-1025

"P" VENTED

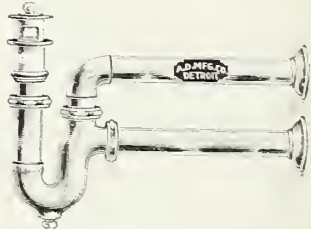
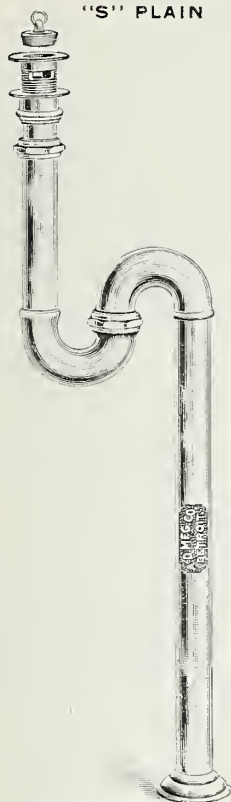
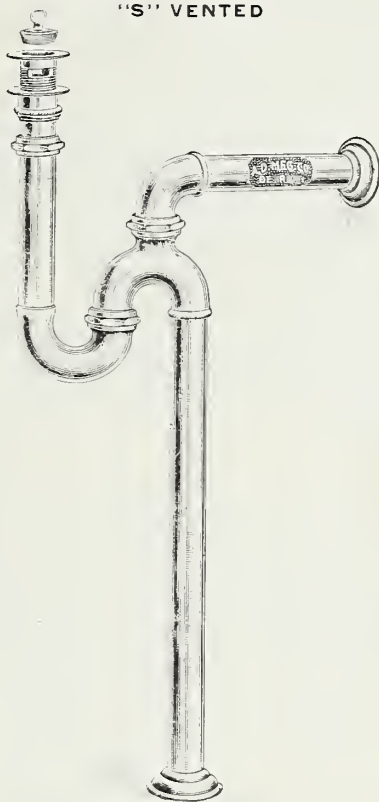


FIG. H-1026

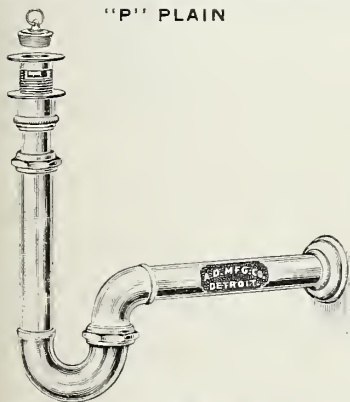
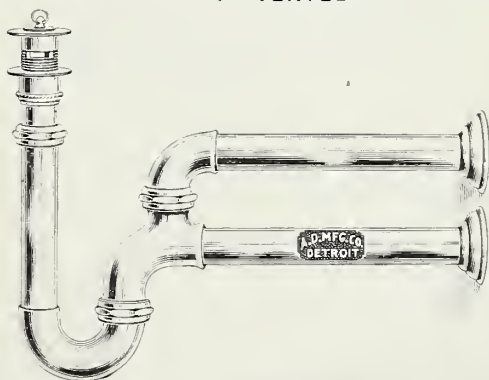
1¼ inch, Nickel-plated, each	-----	\$2.50
1½ inch, Nickel-plated, each	-----	3.25

1¼ inch, Nickel-plated, each	-----	\$2.75
1½ inch, Nickel-plated, each	-----	3.50

**"ROMEYN" BRASS LAVATORY TRAPS****"S" PLAIN****FIG. H-1027****"S" VENTED****FIG. H-1028**

1 $\frac{1}{4}$ inch, Nickel-plated, each .....	\$2.50
1 $\frac{1}{2}$ inch, Nickel-plated, each .....	3.25

1 $\frac{1}{4}$ inch, Nickel-plated, each .....	\$2.75
1 $\frac{1}{2}$ inch, Nickel-plated, each .....	3.50

**"P" PLAIN****FIG. H-1029****"P" VENTED****FIG. H-1030**

1 $\frac{1}{4}$ inch, Nickel-plated, each .....	\$2.50
1 $\frac{1}{2}$ inch, Nickel-plated, each .....	3.25

1 $\frac{1}{4}$ inch, Nickel-plated, each .....	\$2.75
1 $\frac{1}{2}$ inch, Nickel-plated, each .....	3.50

## CUDELL LAVATORY TRAPS

NICKEL-PLATED ANTI-SYPHON  
PERPENDICULAR TRAP

NICKEL-PLATED BALL TRAP

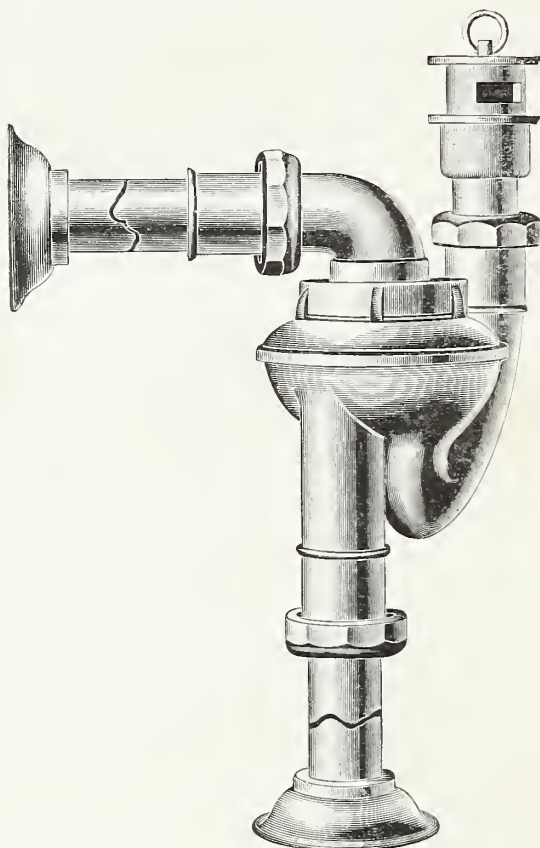


FIG. H-1031

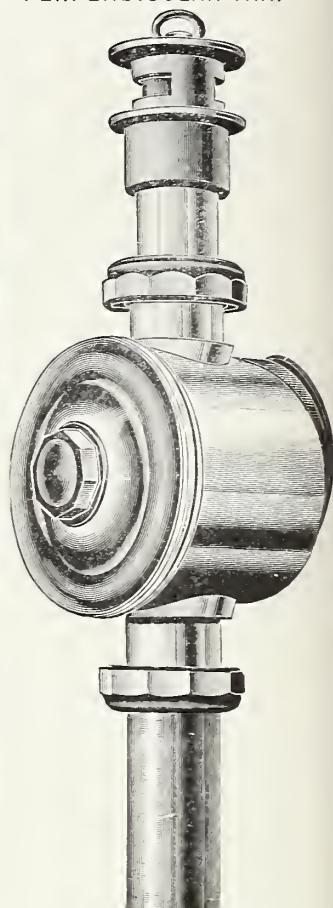


FIG. H-1032

FIG. H-1031

This Trap is made of White Bell metal, Polished and Nickel-plated.  
No. 17, S and P, complete with Basin Plug or Sink Connection.

Size, $1\frac{1}{4}$ inch, no Vent, each	.....	\$6.50
Size, $1\frac{3}{4}$ inch, Vented, each	.....	7.50
If without Basin Plug, deduct	.....	.30

FIG. H-1032

This Trap is made of White Bell metal. There is a Cover in the front and one in the back of Trap.

Size, inches	Inlet	Outlet	
With Common Union, no Vent, each	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$
With Ground Union, no Vent, each	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$
With Common Union, Vented, each	6.50	7.00	7.00
With Ground Union, Vented, each	6.70	7.20	7.20
With Common Union, Vented, each	7.50	8.00	8.00
With Ground Union, Vented, each	7.70	8.20	8.20
If without Basin Plug, deduct	.....	.....	.30

## CUDELL BALL TRAPS

NO. 1-P

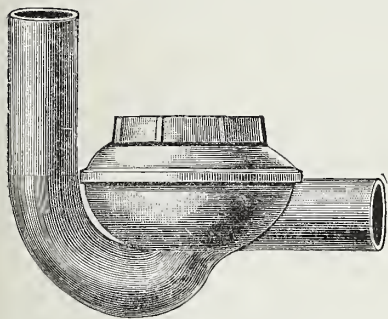


FIG. H-1033

NO. 2 BATH

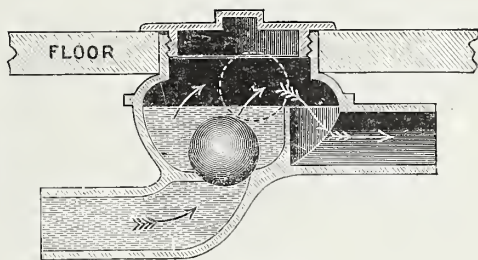


FIG. H-1035

NO. 1-S

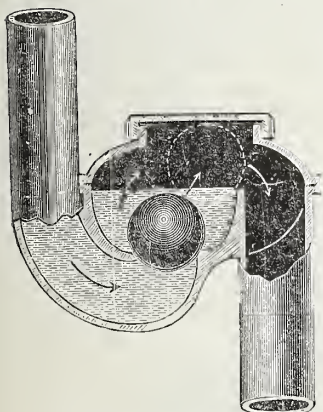


FIG. H-1034

NO. 2 RUNNING

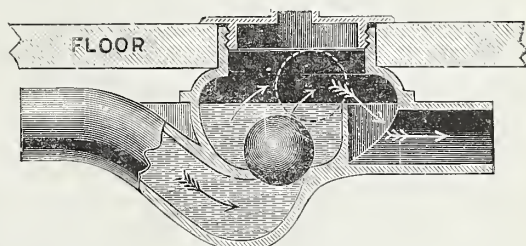


FIG. H-1036

NO. 2 P

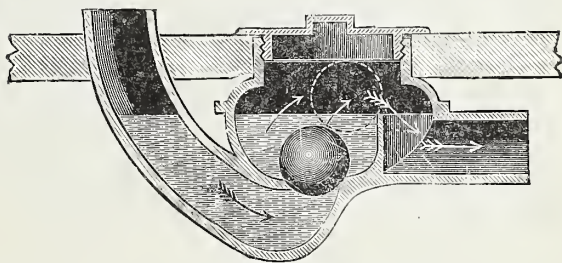


FIG. H-1037

FIGS. H-1033 AND H-1034

Size, Inlet, inches	1	1 1/4	1 1/4	1 1/2	1 1/2
Size, Outlet, inches	1 1/4	1 1/4	1 1/2	1 1/2	2
No. 1—"S" and "P," each	\$2.00	2.00	2.50	2.50	2.70

FIGS. H-1035, H-1036 AND H-1037

Size, Inlet, inches	1	1 1/4	1 1/4	1 1/2	1 1/2
Size, Outlet, inches	1 1/4	1 1/4	1 1/2	1 1/2	2
No. 2—Bath, Running and "P," each	\$2.15	2.15	2.65	2.65	2.90

10 cents extra when Cover is Nickel-plated.



CUDELL BALL TRAPS

NO. 4 BALL TRAPS, WITH BATH COVER AND VENT EXTENSION

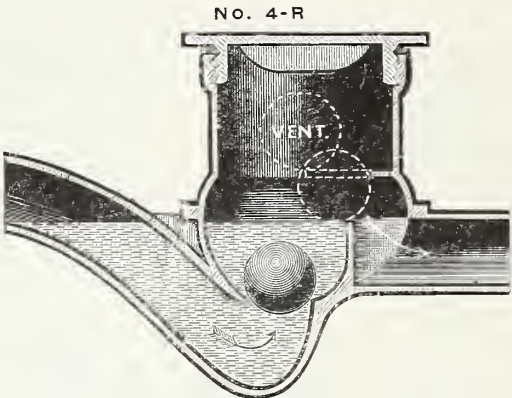


FIG. H-1038

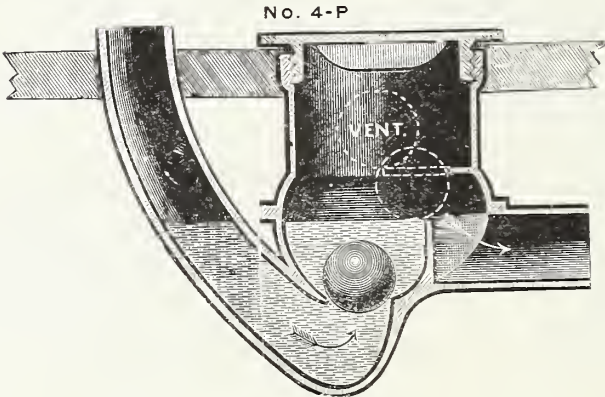


FIG. H-1039

These Traps are furnished with a vent extension which has a closed vent socket Right and Left. Either may be chipped if vent is required.

FIGS. H-1038 AND H-1039

Size, Inlet, inches	1	1¼	1¾	1½	1½
Size, Outlet, inches	1¼	1¼	1½	1½	2
Running, "P," each	\$2.50	2.50	3.00	3.00	3.20

15 cents extra when cover is Nickel-plated.



## CUDELL PERPENDICULAR ANTI-SYPHON TRAP

No. 10

OPEN VIEW

CLOSED VIEW

SECTIONAL VIEW

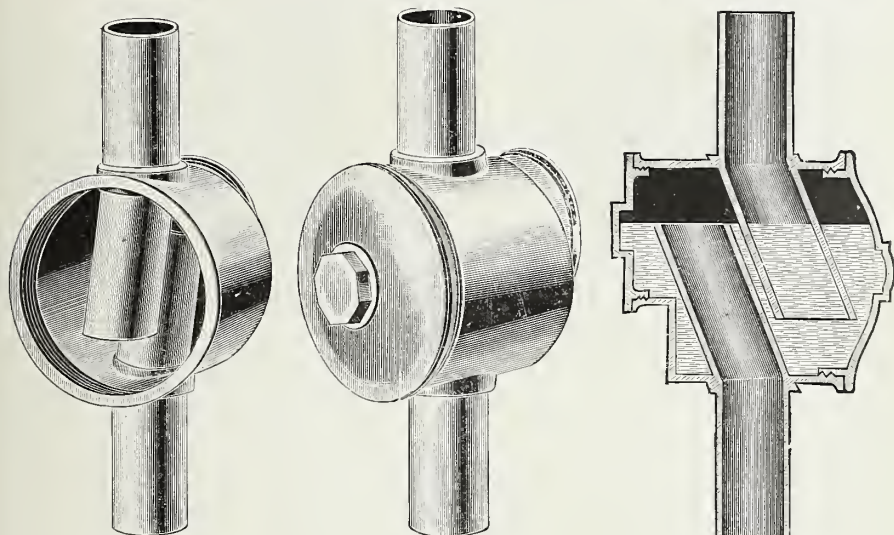


FIG. H-1040

This Trap has a fine appearance. It was publicly tested in Rochester and Watertown, N. Y., and Springfield, Mass., and declared anti-syphon.

It is made of White Bell Metal, except Inlet and Outlet Pipes, which are made of Lead.

Outlet is directly under Inlet.

By unscrewing Front and Rear Cover, both Inlet and Outlet Pipes can be reached.

Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$
	1 $\frac{1}{4}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$
No. 10, Short, Lead Waste	\$2.00	2.00	2.20	2.20
No. 10, Long, with Common Union, Lead Waste to Floor	3.00	3.00	3.40	3.40
No. 10, Long, with Ground Union, Brass Waste to floor	3.30	3.30	3.80	3.80
With Coupling for Basin Plug, extra				.20
With Basin Plug, extra				.50
With Sink Connection, extra				.30

## CLEAN SWEEP TRAPS

FULL "S" BRASS OR LEAD

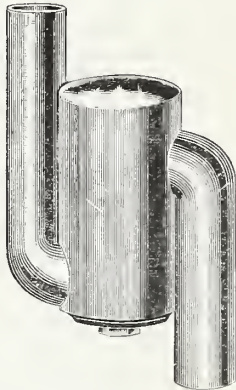


FIG. H-1041

Size	Finish	Plain	Vented
1 $\frac{1}{4}$	No. 1 Lead	.80	1.20
	No. 2 Rough Brass	1.80	2.20
	No. 3 Polish'd Brass and Lacq'd.	2.50	3.10
	No. 4 Polished and Nickel-plated	2.50	3.10
1 $\frac{1}{2}$	No. 5 Lead	.95	1.35
	No. 6 Rough Brass	2.75	3.15
	No. 7 Polish'd Brass and Lacq'd.	3.75	4.25
	No. 8 Polished and Nickel-plated	3.75	4.25
2	No. 9 Lead	1.50	2.00

2 inch made only in Lead

HALF "S" BRASS OR LEAD

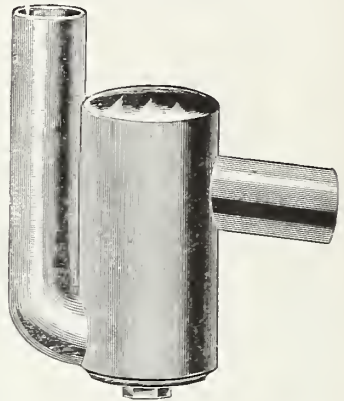


FIG. H-1042

Size	Finish	Plain	Vented
1 $\frac{1}{4}$	No. 1 Lead	.75	1.15
	No. 2 Rough Brass	1.60	2.00
	No. 3 Polish'd Brass and Lacq'd.	2.30	2.80
	No. 4 Polished and Nickel-plated	2.30	2.80
1 $\frac{1}{2}$	No. 5 Lead	.90	1.30
	No. 6 Rough Brass	2.50	3.00
	No. 7 Polish'd Brass and Lacq'd.	3.60	4.10
	No. 8 Polished and Nickel-plated	3.60	4.10
2	No. 9 Lead	1.30	1.80

2 inch made only in Lead.

## BRASS SINK TRAPS

WITH CONNECTION FOR IRON OR STEEL SINKS

"S" PLAIN

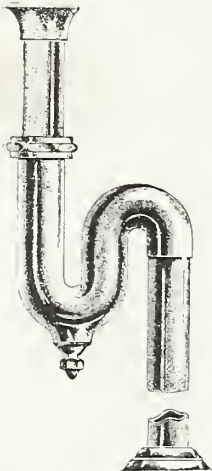


FIG. H-1043

FIG. H-1043

Size, inches	1 $\frac{1}{4}$	1 $\frac{1}{2}$
Plain, Nickel-plated, each	\$2.75	3.75
Vented, Nickel-plated, each	3.25	4.50
Size, inches	2	
Plain, Nickel-plated, each	\$7.95	
Vented, Nickel-plated, each	9.05	

FIG. H-1044

Size, inches	1 $\frac{1}{4}$	1 $\frac{1}{2}$
Plain, Nickel-plated, each	\$2.60	3.25
Vented, Nickel-plated, each	3.05	4.25
Size, inches	2	
Plain, Nickel-plated, each	\$7.25	
Vented, Nickel-plated, each	8.75	

"P" PLAIN

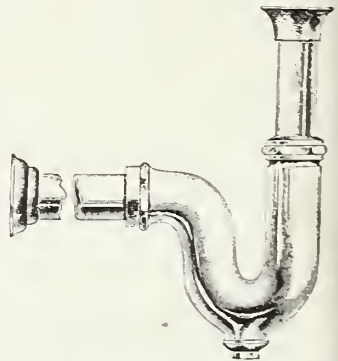


FIG. H-1044

## LEAD DRUM TRAPS

No. 1



FIG. H-1045

No. 2



FIG. H-1046

No. 3



FIG. H-1047

No. 4



FIG. H-1048

	FIG. H-1045		FIG. H-1046		FIG. H-1047		FIG. H-1048	
	Stand'd.	Extra Heavy.	Stand'd.	Extra Heavy.	Stand'd.	Extra Heavy.	Stand'd.	Extra Heavy.
4 x 8 inches, each	\$1.90	2.40	\$2.60	3.10	\$3.00	3.50	\$3.00	3.50
4 x 9 inches, each	2.02	2.50	2.72	3.20	3.12	3.60	3.12	3.60
4 x 10 inches, each	2.10	2.63	2.80	3.33	3.20	3.73	3.20	3.73
4 x 12 inches, each	2.25	2.90	2.95	3.60	3.35	4.00	3.35	4.00
5 x 10 inches, each	3.00	3.40	3.70	4.10	4.10	4.50	4.10	4.50
6 x 10 inches, each	3.55	4.15	4.25	4.85	4.65	5.25	4.65	5.25
For Polished Brass or N. P., add to List, each	.20	.20	.30	.30	.30	.30	.30	.30

No. 5



FIG. H-1049

No. 6



FIG. H-1050

No. 7



FIG. H-1051

No. 8



FIG. H-1052

	FIG. H-1049		FIG. H-1050		FIG. H-1051		FIG. H-1052	
	Stand'd.	Extra Heavy.	Stand'd.	Extra Heavy.	Stand'd.	Extra Heavy.	Stand'd.	Extra Heavy.
4 x 8 inches, each	\$2.00	2.50	\$2.80	3.30	\$3.20	3.70	\$3.20	3.70
4 x 9 inches, each	2.12	2.60	2.92	3.40	3.32	3.80	3.32	3.80
4 x 10 inches, each	2.20	2.73	3.00	3.53	3.40	3.93	3.40	3.93
4 x 12 inches, each	2.35	3.00	3.15	3.80	3.55	4.20	3.55	4.20
5 x 10 inches, each	3.10	3.50	3.90	4.30	4.30	4.70	4.30	4.70
6 x 10 inches, each	3.65	4.25	4.45	5.05	4.85	5.45	4.85	5.45
For Polished Brass or N. P., add to List, each	.20	.20	.30	.30	.30	.30	.30	.30

## LEAD TRAPS—STANDARD AND EXTRA HEAVY

## PLAIN

"S"  
LONG OUTLET

FIG. H-1054

"S"



FIG. H-1053

3/4 "S"



FIG. H-1055

"P"



FIG. H-1056

"S" BAG  
LONG OUTLET

FIG. H-1060

"P"—LONG OUTLET



FIG. H-1057

RUNNING



FIG. H-1058

"S" BAG



FIG. H-1059

## STANDARD

## EXTRA HEAVY

Size, inches	1 1/4	1 1/2	2	3	4	1 1/4	1 1/2	2	3	4
Fig. H-1053—Each	.58	.90	1.38	2.69	3.25	.87	1.25	1.85	3.09	4.30
Fig. H-1054—Each	.93	1.36	2.00	----	----	1.44	1.95	2.69	----	----
Fig. H-1055—Each	.55	.81	1.30	2.62	3.07	.81	1.15	1.73	2.97	3.95
Fig. H-1056—Each	.51	.75	1.20	2.24	2.49	.77	1.09	1.57	2.58	3.25
Fig. H-1057—Each	.76	1.02	1.55	----	----	1.14	1.50	2.02	----	----
Fig. H-1058—Each	.48	.72	1.13	2.09	2.53	.70	1.03	1.46	2.35	3.28
Fig. H-1059—Each	.68	1.08	1.73	3.35	4.77	1.06	1.54	2.33	3.96	6.30
Fig. H-1060—Each	1.09	1.58	2.34	----	----	1.67	2.24	3.11	----	----

Prices include Brass Trap Screws on all sizes except 4 inch.

## LEAD TRAPS—STANDARD AND EXTRA HEAVY

## VENTED

## "S"—LONG OUTLET



FIG. H-1062



FIG. H-1061



FIG. H-1063



FIG. H-1064

## "S" BAG LONG OUTLET



FIG. H-1068

## "S" BAG



FIG. H-1067

## RUNNING



FIG. H-1066

## "P"—LONG OUTLET

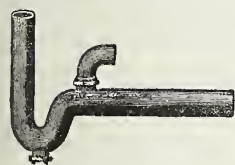


FIG. H-1065

	STANDARD						EXTRA HEAVY					
Size, inches.....	1 1/4	1 1/2	2	2	3	4	1 1/4	1 1/2	2	2	3	4
Size of Vent, inches	1 1/4	1 1/2	1 1/2	2	2	2	1 1/4	1 1/2	1 1/2	2	2	2
Fig. H-1061—Each	\$1.38	1.85	2.33	2.63	3.94	4.50	1.67	2.20	2.80	3.10	4.34	5.55
Fig. H-1062—Each	1.73	2.31	2.95	3.25	---	---	2.24	2.90	3.64	3.94	---	---
Fig. H-1063—Each	1.35	1.76	2.25	2.55	3.87	4.32	1.61	2.10	2.68	2.98	4.22	5.20
Fig. H-1064—Each	1.31	1.70	2.15	2.45	3.49	3.74	1.57	2.04	2.52	2.82	3.83	4.50
Fig. H-1065—Each	1.56	1.97	2.50	2.80	---	---	1.94	2.45	2.97	3.27	---	---
Fig. H-1066—Each	1.28	1.67	2.08	2.38	3.34	3.78	1.50	1.98	2.41	2.71	3.60	4.53
Fig. H-1067—Each	1.48	2.03	2.68	2.98	4.60	6.02	1.86	2.49	3.28	3.58	5.21	7.55
Fig. H-1068—Each	1.89	2.53	3.29	3.59	---	---	2.47	3.19	4.06	4.36	---	---

Prices include Brass Trap Screws on all sizes except 4 inch.

All 2 inch Traps have 1 1/2 inch Vents unless otherwise ordered.

3 inch and 4 inch Traps have 2 inch Vents.

Vents may be 1/4, 1/8, 1/2 Bend, or Straight. 1/4 Bend Vents will be furnished unless otherwise ordered.



## LEAD BENDS

SHORT

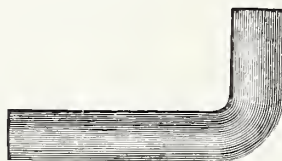


FIG. H-1069

LONG

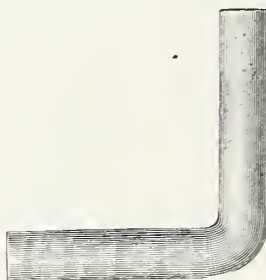


FIG. H-1069

FIG. H-1070

	Standard.	Extra Heavy.
$1\frac{1}{4}$ inch, ( $3\frac{1}{2}$ inch inlet) x 6, each	.25	.34
$1\frac{1}{2}$ inch, (4 inch inlet) x 7, each	.38	.62
2 inch, ( $3\frac{3}{4}$ inch inlet) x $7\frac{3}{4}$ , each	.57	.80
3 inch, ( $4\frac{1}{4}$ inch inlet) x $8\frac{1}{4}$ , each	1.09	1.21
4 inch, ( $5\frac{1}{2}$ inch inlet) x 10, each	1.50	1.84

FIG. H-1070

	Standard.	Extra Heavy.
$1\frac{1}{4}$ inch, (6 x 6 inches), each	.30	.50
$1\frac{1}{2}$ inch, (7 x 7 inches), each	.50	.79
2 inch, ( $7\frac{3}{4}$ x $7\frac{3}{4}$ inches), each	.78	1.05
3 inch, ( $8\frac{1}{4}$ x $8\frac{1}{4}$ inches), each	1.39	1.60
4 inch, (10 x 10 inches), each	1.95	2.40



## EXTENSION BENDS

Short inlet ends are same dimensions as inlets on short bends of corresponding size.

Long inlet ends are the same as on long bends.

FIG. H-1071

STANDARD

Size, inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	3	4
Short inlet end x 12 inch on outlet end, each	.40	.56	.79	1.39	1.70
Short inlet end x 15 inch on outlet end, each	.47	.67	.94	1.65	2.00
Short inlet end x 18 inch on outlet end, each	.55	.77	1.09	1.90	2.30
Short inlet end x 20 inch on outlet end, each	.60	.84	1.19	2.07	2.48
Long inlet end x 12 inch on outlet end, each	.46	.67	.99	1.73	2.15
Long inlet end x 15 inch on outlet end, each	.54	.77	1.14	1.99	2.44
Long inlet end x 18 inch on outlet end, each	.62	.88	1.29	2.24	2.73
Long inlet end x 20 inch on outlet end, each	.67	.95	1.39	2.42	2.92

EXTRA HEAVY

Size, inches	$1\frac{1}{4}$	$1\frac{1}{2}$	2	3	4
Short inlet end x 12 inch on outlet end, each	.60	.90	1.08	1.57	2.09
Short inlet end x 15 inch on outlet end, each	.72	1.07	1.28	1.87	2.45
Short inlet end x 18 inch on outlet end, each	.84	1.24	1.49	2.16	2.81
Short inlet end x 20 inch on outlet end, each	.92	1.35	1.63	2.35	3.04
Long inlet end x 12 inch on outlet end, each	.70	1.07	1.35	1.96	2.62
Long inlet end x 15 inch on outlet end, each	.82	1.24	1.56	2.25	2.98
Long inlet end x 18 inch on outlet end, each	.94	1.41	1.76	2.54	3.34
Long inlet end x 20 inch on outlet end, each	1.02	1.52	1.90	2.74	3.58

## COMBINATION FERRULES

LEAD AND IRON

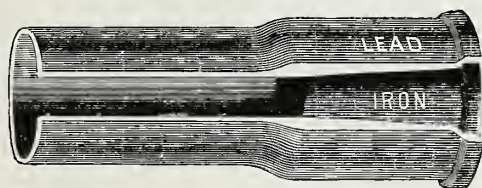


FIG. H-1072

Inch	Length, in...	4	4½	5	6	8	10	12	14	16	18	20	24	30	36
1¼	for 2 inch C. I. P.	..	.28	.36	.43	.51	.60	.67	..	..	..	..	..	..	..
1½	for 2 inch C. I. P.	..	.28	.36	.43	.51	.60	.67	.80	.90	1.00	1.10	1.30	..	..
2	for 2 inch C. I. P.	.28	..	.41	.46	.57	.67	.76	.80	.86	.92	1.00	1.15	1.40	1.65
3	for 3 inch C. I. P.	.42	..	.60	.67	.82	.98	1.10	1.15	1.22	1.30	1.40	1.60	2.00	2.30
4	for 4 inch C. I. P.	.50	..	.72	.85	1.02	1.25	1.40	1.60	1.73	1.85	2.10	2.30	2.75	3.25

Combination P Traps  
and Ferrules

LEAD AND IRON

Combination Bends and  
Ferrules

LEAD AND IRON

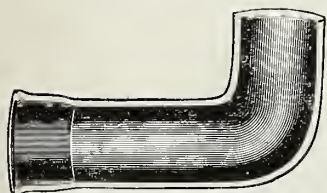


FIG. H-1073

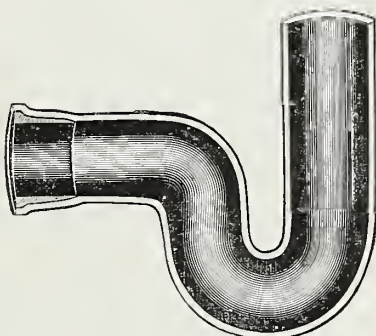


FIG. H-1074

Length of Outlet, inches .....	12	13	14	15	16
Fig. H-1073—4 inch, Short Inlet (5½ inches), each .....	\$2.20	2.30	2.40	2.50	2.60
Fig. H-1073—4 inch, Long Inlet (9¾ inches), each .....	2.65	2.75	2.85	2.94	3.04
Length of Outlet, inches .....	17	18	19	20	
Fig. H-1073—4 inch, Short Inlet (5½ inches), each .....	\$2.70	2.80	2.90	3.00	
Fig. H-1073—4 inch Long Outlet (9¾ inches), each .....	3.14	3.23	3.33	3.42	

Length, inches .....	13	14	15	16	17	18	19	20	21	22
Fig. H-1074—4 inch, each .....	\$3.12	3.25	3.37	3.50	3.62	3.75	3.87	4.00	4.12	4.25

## GREASE TRAPS

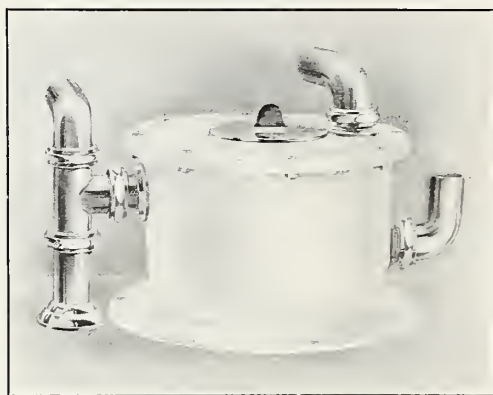


FIG. H-1075

Porcelain Enameled Grease Traps, with 2 inch Brass Inlet, Outlet, Vent Connections and Hand Hole Cover.

**DIMENSIONS**

Body of Trap, 8½ inches high; Diameter on Top, 14 inches.

Enameled Inside, as described .....	\$16.50
Enameled all over, as described .....	19.50
If with Nickel-plated Connections, add .....	1.50



FIG. H-1076

Brass Grease Traps.

**DIMENSIONS**

Body of Trap, 10 inches high; Diameter, 5 inches; Couplings, 2 inches.

Nickel-plated, as described .....	\$18.00
Polished Brass, as described .....	16.00

## GREASE AND SEWER TRAP



FIG. H-1077

FIG. H-1077

Grease and Sewer Traps, with  
Brass Hand Hole Cover.

## DIMENSIONS

Diameter.....  $16\frac{1}{2}$  inches.  
Height..... 13 inches.

Painted, as described..... \$7.00  
Enameled Inside, as described 10.00

FIG. H-1078

## CUDELL 5 INCH GREASE TRAP

The Cylinder, Inlet and Outlet Pipes of this Trap are made of Lead; the Top, Base and Couplings of White Bell Metal. Is made in S and P.

No. 16 "P".....	\$7.50
No. 16 "S".....	8.00
Vented "P".....	8.50
Vented "S".....	9.00

## ORDER

Inlet over Outlet..

Outlet Straight.

Outlet Right or Left.

No. 16

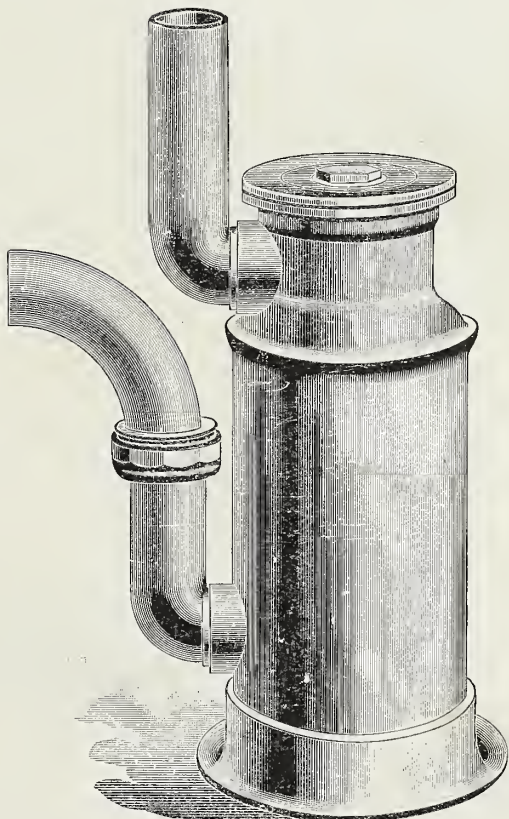


FIG. H-1078

## BRASS CLOSET PIPES

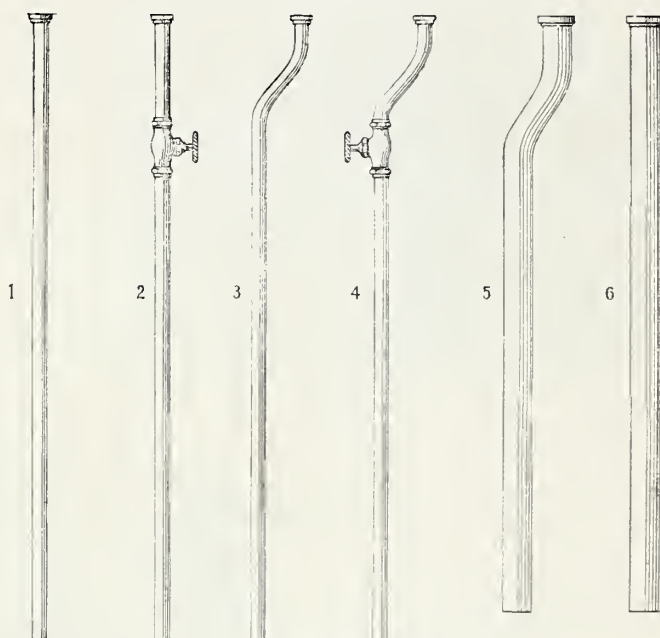


FIG. H-1079

## CLOSET FLUSH PIPES, 6 FEET LONG

Size, (No. 20 Gauge), inches	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$
Offset Pipe, Nickel-plated, each	\$2.30	2.50	2.60
Straight Pipe, Nickel-plated, each	2.00	2.30	2.40

## CLOSET SUPPLY PIPES, 7 FEET LONG

Size, inches	No. 17 Gauge. $\frac{5}{8}$	$\frac{3}{8}$	$\frac{1}{2}$
		I. P. Size.	I. P. Size.
Offset Pipe, Nickel-plated, each	\$2.30	3.00	4.30
Straight Pipe, Nickel-plated, each	2.00	2.60	3.90

Pipes with Stop Cocks, extra.

## SPUN FLANGES



FIG. H-1080

Size, inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	2
Nickel-plated, per doz	.50	.50	.75	.75	.85	.85	.85	1.20



## CLOSET PIPE STRAPS

SINGLE, WITH BUMPER



FIG. H-1081

TWIN, WITH BUMPER



FIG. H-1082

For Pipe, inches	$\frac{3}{8} \times 1\frac{3}{8}$	$\frac{1}{2} \times 1\frac{3}{8}$	$\frac{3}{8} \times 1\frac{1}{2}$	$\frac{1}{2} \times 1\frac{1}{2}$
Fig. H-1081—Nickel-plated, per doz	\$2.00	2.00	2.20	2.20
Fig. H-1082—Nickel-plated, per doz	2.50	2.50	2.70	2.70

## FLUSH PIPE

## SUPPLY PIPE



FIG. H-1083

## ADJUSTABLE CLOSET PIPE HOLDERS

Nickel-plated for $1\frac{1}{4}$ inch Flush Pipe, each	.35
Nickel-plated for $1\frac{1}{2}$ inch Flush Pipe, each	.40
Nickel-plated for Supply Pipe, each	.35



FIG. H-1084

## CLOSET PULLS

POLISHED OAK



FIG. H-1085

IMITATION WHITE  
CELLULOID

FIG. H-1086

## GUIDE AND PULL

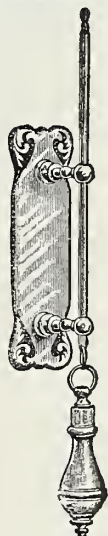


FIG. H-1087

Fig. H-1085—Each	.25
Fig. H-1086—Each	.35
Fig. H-1087—Nickel-plated, with 4 feet Link Chain, per doz	14.00

## NICKEL-PLATED TRIMMINGS

ROUND WASHER

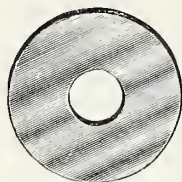


FIG. H-1088

OVAL WASHER

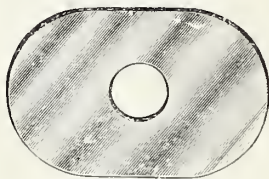


FIG. H-1089

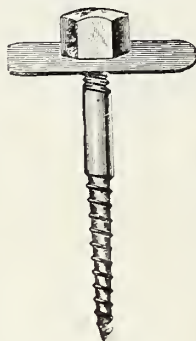
CLOSET SCREW  
AND WASHER  
LOOSE HEAD

FIG. H-1090

CLOSET  
BOLT

FIG. H-1091

N. P., per doz .20	N. P., per doz .30	Per dozen \$1.00	Per doz 1.00
--------------------	--------------------	------------------	--------------

BRASS CLOSET CLAMP

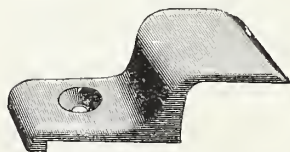


FIG. H-1092

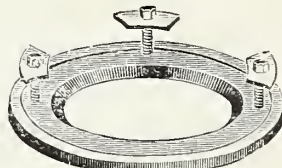
BRASS FLOOR FLANGE  
AND BOLTS

FIG. H-1093

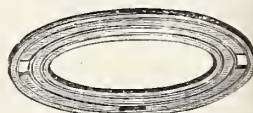
FLOOR FLANGE  
GASKET

FIG. H-1094

Finished, per doz	\$1.20
Nickel-plated, per doz	1.80

Each	.75
------	-----

Each	.25
------	-----

## CLOSET REPAIR COUPLING

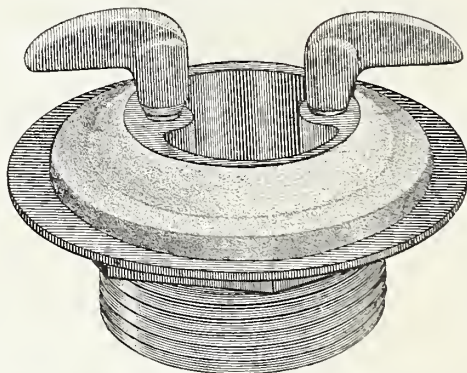


FIG. H-1095

1 1/4 inch, each	\$2.00
2 inch, each	3.00

## SLIP JOINTS, ETC.

SLIP JOINT ELBOW

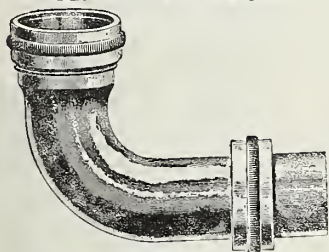


FIG. H-1096

$1\frac{1}{4}$ in. for High Tank Closet,	each	.75
2 in. for Low Tank Closet,	each	1.50

SLIP JOINT OFFSET



FIG. H-1097

2 inch for Low Tank Closet,	each	\$1.50
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SLIP JOINT FLOOR FLANGES

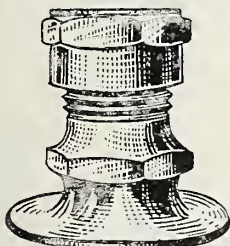


FIG. H-1098

Iron Pipe Thread.	Nickel-plated, each.
$\frac{3}{8}$ inch	.90
$\frac{1}{2}$ inch	1.00
$1\frac{1}{4}$ inch	1.75
$1\frac{1}{2}$ inch	3.00

SLIP JOINT CONNECTION



FIG. H-1099

$\frac{3}{8}$ inch Iron Pipe,	each	.50
$\frac{1}{2}$ inch Iron Pipe,	each	.60

## SEAT VENT PIPE

TO FIT OVAL HORN



FIG. H-1100

Nickel-plated, to fit Oval Horn, as shown,	each	\$1.20
Nickel-plated, to fit Round Horn (not illustrated),	each	1.20

## RUBBER CLOSET CONNECTIONS

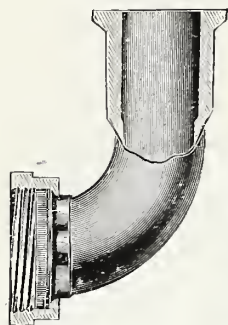
No. 3—FOR 1 $\frac{1}{4}$  INCH  
FLUSH

FIG. H-1101

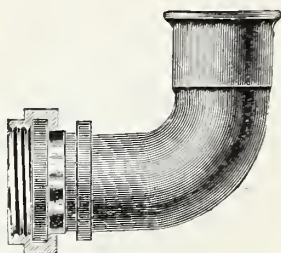
No. 4—FOR 1 $\frac{1}{4}$  INCH  
FLUSH

FIG. H-1102

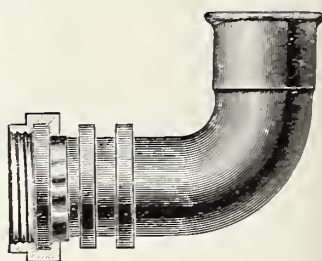
No. 4A—FOR 1 $\frac{1}{4}$  INCH  
FLUSH

FIG. H-1103

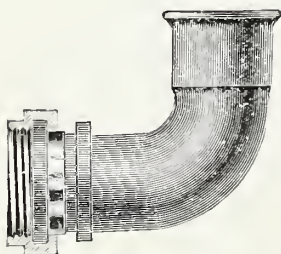
No. 6 AA—FOR 1 $\frac{1}{2}$  INCH  
FLUSH

FIG. H-1104

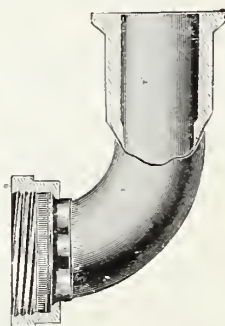
No. 6—FOR 2 INCH  
VENT

FIG. H-1105

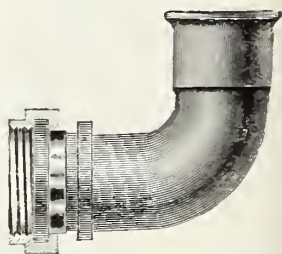
No. 6A—FOR 2 INCH  
VENT

FIG. H-1106

No. 7—FOR 1 $\frac{1}{4}$  INCH FLUSH

FIG. H-1107

No. 8—FOR 2 INCH VENT



FIG. H-1108

Numbers .....	3	4	4A	6AA	6	6A	7	8
Per doz .....	\$8.25	10.00	11.00	15.00	15.00	15.00	7.00	14.00



## RUBBER SUNDRIES

## OHLIGER CONNECTION

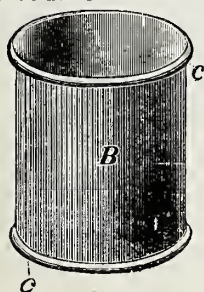


FIG. H-1109

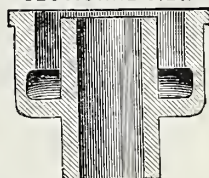
ROBB CONNECTION  
SECTIONAL VIEW

FIG. H-1110

Per doz.	\$2.00	Per doz.	\$2.00
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## RUBBER SEAT BUMPERS

## PLAIN



FIG. H-1111

## TACK



FIG. H-1112

Per doz.	.50	Per doz.	.75
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## BIBB WASHERS

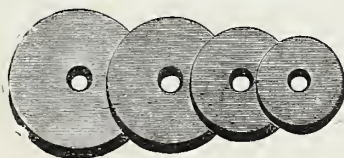


FIG. H-1113

Rubber Washers for Compression Bibbs, $\frac{3}{8}$ to $\frac{3}{4}$ inch, per 100	.75
Rubber Washers for Compression Bibbs, 1 inch, per 100	1.25
Fibre Washers for Compression Bibbs, $\frac{3}{8}$ to 1 inch, per 100	.75

HOSE WASHER  
RUBBER OR LEATHER

FIG. H-1114

## SLIP JOINT WASHERS

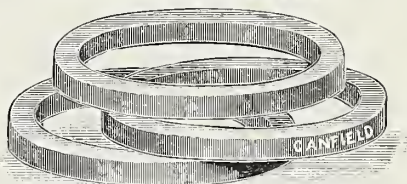


FIG. H-1115

Made in all sizes.

Rubber, per pound	\$1.00	Per pound	\$1.25
Leather, per 100	.75		



## RUBBER SUNDRIES

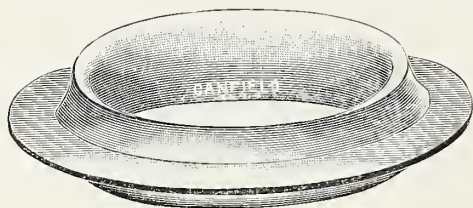


FIG. H-1116

SPECIAL FEATHER EDGE  
WASHERS

FIG. H-1116

Size, inches	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
Per doz	\$3.00	3.75	4.50

## CLOSET TANK VALVE WASHERS



FIG. H-1117

For Gold Medal Valves, Lowdown Tank, per doz	\$2.50
For Gold Medal Valves, High Tank, per doz	2.00

## BASIN AND BATH WASHERS

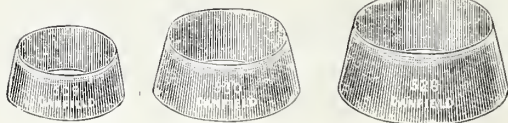


FIG. H-1118

Size, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$
Per doz	\$1.20	1.50	1.80

## BATH WASHERS

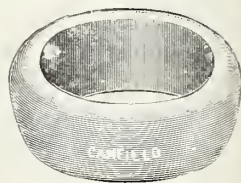


FIG. H-1119

Size, in.	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$
Per doz	\$1.20	1.80	2.25

## GASKETS

## SINK



FIG. H-1120

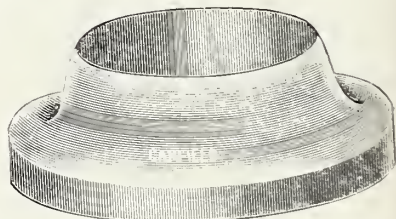


FIG. H-1121

Per doz	.40	Per doz	\$1.10
Bath Gasket, similar to above, per doz	1.50		

**MODERN  
SANITARY  
FIXTURES**

## MODERN BATH ROOM



DESIGN NUMBER 1

BATH. 5-foot 3-inch Roll-Rim Porcelain Enameled "Morris" Bath, with Exterior finished in No. 1 Zinc White, 5-inch Extension at Fitting End, with Nickel-plated Imperial Supply and Waste Fittings.....	\$64.25
SHOWER. Nickel-plated Shower Bath, with Rubber Curtain, Wall Hook and Chain and Shampoo Attachment .....	58.00
SITZ BATH. 3-inch Roll-Rim Porcelain Enameled Sitz Bath, with Exterior Finished in No. 1 Zinc White, with Nickel-plated Imperial Bell Supply and Waste Fittings.....	44.00
LAVATORY. 22 x 33 inch Porcelain Enameled all over "Copley" Design, with Slab, Bowl and Apron all in one piece on Nickel-plated Legs and Frame, with Fuller Faucets with China Indexes, Supply Pipes and Imperial Waste with China Index and Vented "P" Trap.....	49.50
CLOSET. "Delecto" Porcelain Enameled all over Syphon Jet Closet, with Quartered Oak Saddle Seat with Paneled Cover and Colonial Tank, with Blanco "P" Marble Top and Push Button, Supply Pipe with Bulb Air Chamber and Compression Stop .....	48.00
Total approximate cost .....	\$263.75

## MODERN BATH ROOM



DESIGN NUMBER 2

BATH. 5-foot 3-inch Roll-Rim Porcelain Enameled "Occident" Bath, with Nickel-plated Fuller Double Bath Cock, Offset Supply Pipes and Connected Waste and Overflow .....	\$35.25
LAVATORY. Porcelain Enameled "Berlin" Design Lavatory, with Slab, Bowl, Back and Apron all in one piece, with Nickel-plated Keystone Waste and Soap Dish, Low Pattern Compression Faucets, Supply Pipes and Vented "P" Trap .....	22.00
CLOSET. "Edux" Porcelain Enameled all over Syphonic Closet, with Oak Seat and Cover and Oak Tank with Push Button, and Nickel-plated Supply Pipe .....	32.50
Total approximate cost .....	\$89.75

For No. 1 Zinc White Exterior Finish, on Bath, add ..... \$13.00

For Lavatory Enameled all over, add ..... 2.00

## SOLID PORCELAIN BATH

OVAL PATTERN—ON BASE



FIG. H-1123

## DIMENSIONS

Length Outside,  $5\frac{1}{2}$  feet.  
 Depth Inside, 19 inches.

Width Outside,  $34\frac{1}{2}$  inches.  
 Height over all, 21 inches.

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Length of Bath .....	5 ft. 6 in.
List, Bath only, "A" Quality .....	\$180.00
List, Bath only, "B" Quality .....	126.00
List, Nickel-plated Bell Supply and Waste .....	35.00
Shipping Frame for Bath, net .....	3.00

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## SOLID PORCELAIN BATH

FRENCH PATTERN—ON BASE

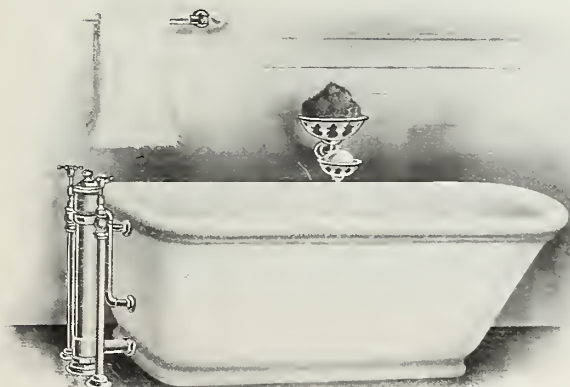


FIG. H-1124

## DIMENSIONS

Length Outside, as below.

Width Outside, 30 inches.

Depth Inside, 18 inches.

Height over all, 21 inches.

Length of Bath, feet.....	4½	5	5½	6
List, Bath only, "A" Quality.....	\$115.00	125.00	140.00	160.00
List, Bath only, "B" Quality.....	80.50	87.50	98.00	112.00
List, Nickel-plated Bell Supply and Waste.....				\$30.00
Shipping Frame for Bath, net.....				3.00

## SOLID PORCELAIN BATH

## FRENCH PATTERN—ON FEET

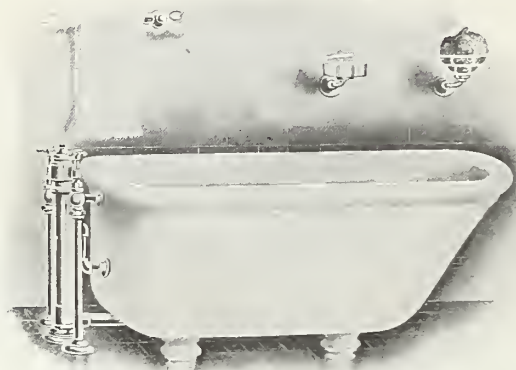


FIG. H-1125

## DIMENSIONS

Lengths Outside, as below.      Width Outside, 30 inches.

Depth Inside, 18 inches.

Height over all, on  $4\frac{1}{2}$  inch legs,  $25\frac{1}{2}$  inches.

NOTE.—Baths 6 feet 6 inches and 7 feet long measure 33 inches wide outside.

Length of Bath, feet.....	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6	$6\frac{1}{2}$	7
List, Bath only, "A" Quality.....	\$105.00	115.00	125.00	145.00	165.00	190.00
List, Bath only, "B" Quality.....	73.50	80.50	87.50	101.50	115.50	133.00
List, Feet (set of Four) .....						\$4.00
List, Nickel-plated Bell Supply and Waste .....						25.00
Shipping Frame for Bath, net.....						3.00

**SOLID PORCELAIN SITZ BATH****ROLL-RIM-ON BASE****FIG. H-1126****DIMENSIONS**

Length, 30 inches.

Width over all, 27 inches.

Height at Back, 20 $\frac{3}{4}$  inches.

Height at Front, 15 inches.

Description .....	Glazed Inside and over Roll-Rim.	Glazed Inside and Outside.
List, Sitz Bath only, "A" Quality .....	\$50.00	70.00
List, Sitz Bath only, "B" Quality .....	35.00	49.00
List, Nickel-plated Bell Supply and Waste .....	25.00	25.00

**FIG. H-1127—(Not Illustrated).****ROLL-RIM SITZ BATH-ON LEGS****DIMENSIONS**

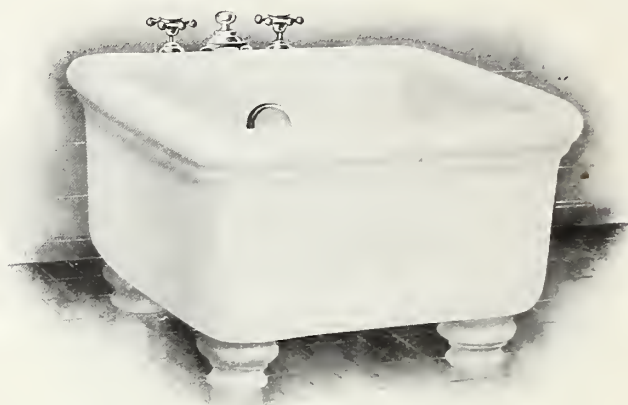
Length, 30 inches.

Width over all, 27 inches.

Height on Feet, at Back, 20 $\frac{3}{4}$  inches.

Height on Feet, at Front, 15 inches.

Description .....	Glazed Inside and over Roll-Rim.	Glazed Inside and Outside.
List, Sitz Bath only, "A" Quality .....	\$40.00	60.00
List, Sitz Bath only, "B" Quality .....	28.00	42.00
List, Feet, (set of Two) .....	4.00	4.00
List, Nickel-plated Bell Supply and Waste .....	25.00	25.00

**SOLID PORCELAIN FOOT BATH****ROLL-RIM—ON LEGS****FIG. H-1128****DIMENSIONS**

Length Outside, 26 inches.                      Width Outside,  $21\frac{1}{2}$  inches.  
 Height Outside, 13 inches.

---

List, Foot Bath only, "A" Quality .....	\$25.00
List, Foot Bath only, "B" Quality .....	17.50
List, Legs (set of Four) .....	4.00
List, Nickel-plated Bell Supply and Waste .....	25.00

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**FIG. H-1129—(Not Illustrated)****ROLL-RIM FOOT BATH—ON BASE****DIMENSIONS**

Length Outside, 26 inches.                      Width Outside,  $21\frac{1}{2}$  inches.  
 Height Outside, 13 inches.

---

List, Foot Bath only, "A" Quality .....	\$30.00
List, Foot Bath only, "B" Quality .....	21.00
List, Nickel-plated Bell Supply and Waste .....	25.00

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## SOLID PORCELAIN SHOWER BATH RECEPTORS

## ROLL-RIM—SQUARE PATTERN



FIG. H-1130

## DIMENSIONS—(Outside)

No. 1—Length, 36 inches ; Width, 36 inches ; Height, 9 inches.

No. 2—Length, 42 inches ; Width, 42 inches ; Height, 9 inches.

Number	1	2
List, Receptor only, "A" Quality	\$55.00	80.00
List, Receptor only, "B" Quality	38.50	56.00
List, Nickel-plated Strainer and Floor Flange	4.00	4.00

## ROLL-RIM—FOR CORNER



FIG. H-1131

## DIMENSIONS—(Outside)

Length on Sides,  $33\frac{1}{2}$  inches.  
Depth, 9 inches.Length from Corner at Back  
to Front, 49 inches.

List, Receptor only, "A" Quality	\$100.00
List, Receptor only, "B" Quality	70.00
List, Nickel-plated Strainer and Floor Flange	4.00



## PORCELAIN ENAMELED BATH

"ALBION"

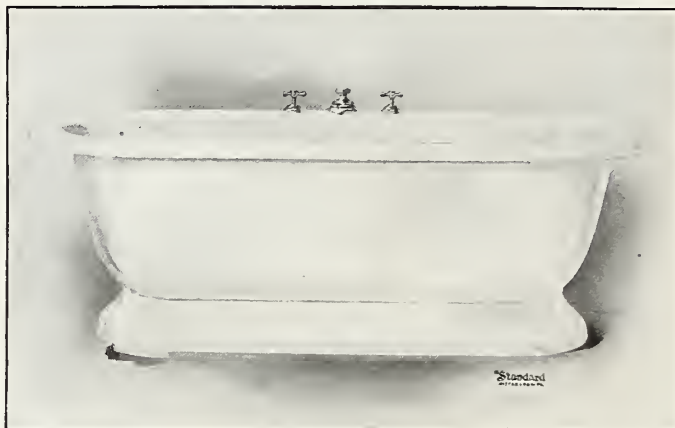


FIG. H-1132

Porcelain Enameled Bath on Base (for setting in tile floor), Nickel-plated Imperial Bell Supply and Waste Fittings, with  $\frac{3}{4}$  inch Iron Pipe Size Supply Pipes, with Unions at Floor.

NOTE.—Receptors, Sitz and Foot Baths, with Base instead of Feet, to correspond with this Bath, can be furnished.

### DIMENSIONS

Width over Rim,  $34\frac{1}{2}$  inches.

Height to Top of Rim,  $23\frac{1}{2}$  inches.

Width of Roll-Rim,  $4\frac{3}{4}$  inches.

Depth Inside,  $18\frac{1}{2}$  inches.

Nominal Size, feet .....	$4\frac{1}{2}$	5	$5\frac{1}{2}$
As described .....	\$73.00	76.50	80.00
Bath only, Drilled for Fittings shown .....	55.00	58.50	62.00
Length over Rim .....	5' 3"	5' 9"	6' 3"
Approximate weight of Bath, crated .....	600 lbs.	650 lbs.	700 lbs.

For Exterior Finish and Decorations, see page 355.

## PORCELAIN ENAMELED BATH

"MONARCH"

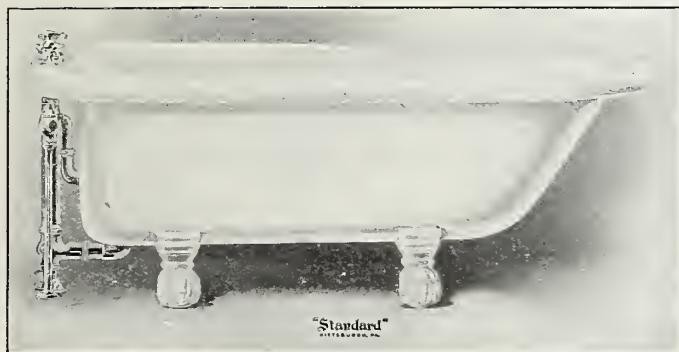


FIG. H-1133

Porcelain Enameled Bath, and Nickel-plated Imperial Bell Supply and Waste Fittings, with  $\frac{3}{4}$  inch Iron Pipe Size Supply Pipes.

## DIMENSIONS

Width over Rim, 35 inches.	Height to Top of Rim, 24 inches.
Width of Roll-Rim, $4\frac{3}{4}$ inches.	Depth Inside, $18\frac{1}{2}$ inches.

Nominal Size, feet.....	5	$5\frac{1}{2}$	6
As described .....	\$52.00	56.00	60.00
Bath only, Drilled for Fittings shown .....	35.00	39.00	43.00
Length over Rim, Bath only.....	5' 1"	5' 7"	6' 1"
Approximate weight of Bath, crated .....	440 lbs.	500 lbs.	575 lbs.

For Exterior Finish and Decorations, see page 355.

## PORCELAIN ENAMELED BATH

"MAJESTIC"



FIG. H-1134

Porcelain Enameled Bath, with Nickel-plated Brass Shower, Curtain Ring and Rubber Curtain, Nickel-plated Fuller Double Bath Cock, with  $\frac{3}{4}$  inch Iron Pipe Size Supply Pipes, and Nickel-plated Imperial Waste.

## DIMENSIONS

Width over Rim, 33 inches.

Height to Top of Rim,  $22\frac{1}{2}$  inches.

Width of Roll-Rim, 4 inches.

Depth Inside, 17 inches.

Nominal Size, feet	$4\frac{1}{2}$	5	$5\frac{1}{2}$
As described	\$90.00	94.00	98.00
Bath only, Drilled for Fittings shown	35.00	39.00	43.00
Length over Rim, Bath only	$5' 2\frac{1}{2}"$	$5' 8\frac{1}{2}"$	$6' 2\frac{1}{2}"$
Approximate weight of Bath, crated	350 lbs.	375 lbs.	400 lbs.

For Exterior Finish and Decorations, see page 355.

## PORCELAIN ENAMELED BATH

"LORRAINE"

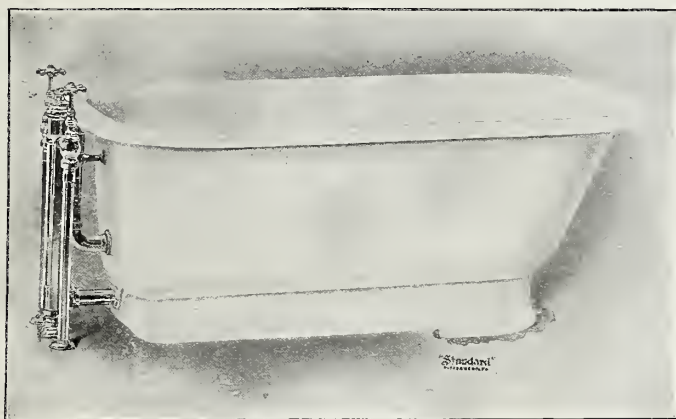


FIG. H-1135

Porcelain Enameled Bath, with Base, and Nickel-plated Imperial Bell Supply and Waste Fittings, with  $\frac{3}{4}$  inch Iron Pipe Size Supply Pipes.

Made only for Fittings having Imperial Waste.

## D MENSIONS

Width over Rim, 30 inches.      Height to Top of Rim,  $20\frac{1}{2}$  inches.

Width of Roll-Rim, 3 inches.      Depth Inside,  $17\frac{1}{2}$  inches.

Depth of Base,  $4\frac{1}{2}$  inches.

Nominal Size, feet	$4\frac{1}{2}$	5	$5\frac{1}{2}$
As described	\$45.50	50.50	55.50
Length over Rim, Bath only	4' 6"	5' $2\frac{1}{2}$ "	5' 8"
Approximate weight of Bath, crated	325 lbs.	375 lbs.	400 lbs.

For Exterior Finish and Decorations, see page 355.

PORCELAIN ENAMELED BATH

“ OCCIDENT ”

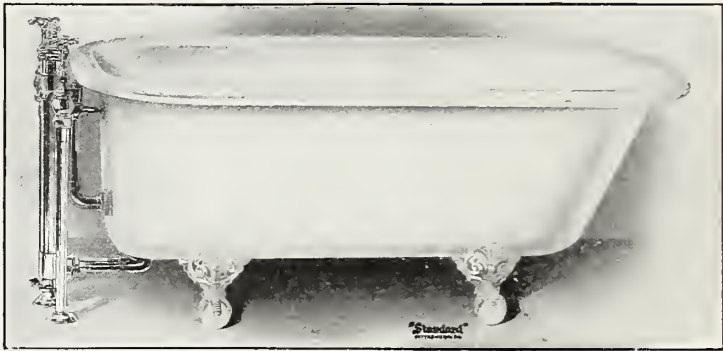


FIG. H-1136

Porcelain Enameled Bath, with Wide Flat Bottom, and Nickel-plated Imperial Bell Supply and Waste Fittings, with 3/4 inch Iron Pipe Size Supply Pipes.

DIMENSIONS

Width over Rim, 30 inches.      Height to Top of Rim, 22½ inches.  
Width of Roll-Rim, 3 inches.      Depth Inside, 17 inches.

Nominal Size, feet.....	4	4½	5	5½	6
As described .....	\$42.00	42.00	45.00	48.75	53.25
Bath only, Drilled for Fittings shown..	24.00	24.00	27.00	30.75	35.25
Length over Rim, Bath only .....	4'	4' 6"	5'	5' 6"	6'
Approximate weight of Bath, crated	300 lbs.	325 lbs.	350 lbs.	375 lbs.	400 lbs.

For Exterior Finish and Decorations, see page 355.



## PORCELAIN ENAMELED BATH

"OCCIDENT"

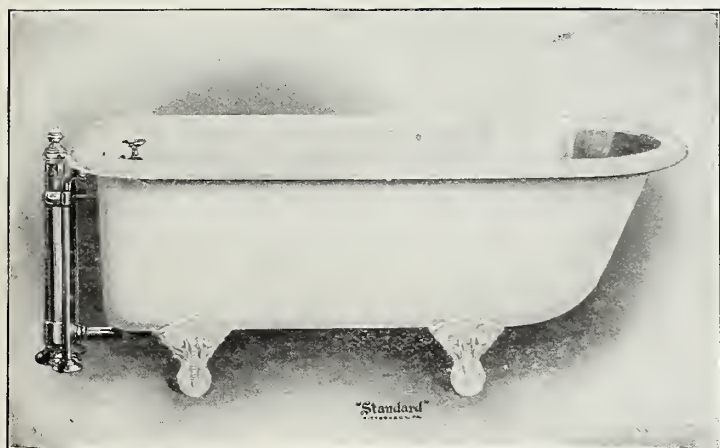


FIG. H-1137

Porcelain Enameled Bath, with Wide Flat Bottom, and Nickel-plated No.  $4\frac{1}{2}$  Fuller Double Bath Cock, with  $\frac{1}{2}$  inch Iron Pipe Size Offset Supply Pipes and Imperial Waste.

## DIMENSIONS

Width over Rim, 30 inches.      Height to Top of Rim,  $22\frac{1}{2}$  inches.  
 Width of Roll-Rim, 3 inches.      Depth Inside, 17 inches.

Nominal Size, feet .....	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6
As described .....	\$36.75	36.75	39.75	43.50	48.00
Bath only, Drilled for Fittings shown ..	24.00	24.00	27.00	30.75	35.25
Length over Rim, Bath only .....	4'	4' 6"	5'	5' 6"	6'
Approximate weight of Bath, crated ..	300 lbs.	325 lbs.	350 lbs.	375 lbs.	400 lbs.

For Exterior Finish and Decorations, see page 355.

## PORCELAIN ENAMELED BATH

"OCCIDENT"

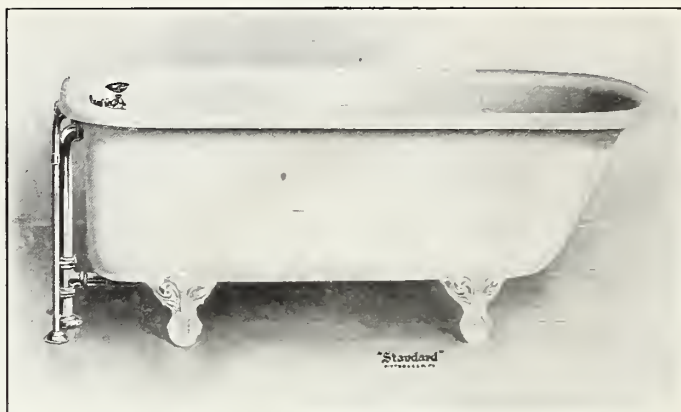


FIG. H-1138

Porcelain Enameled Bath, with Wide Flat Bottom, and Nickel-plated No. 4½ Fuller Double Bath Cock, with ½ inch Iron Pipe size Offset Supply Pipes and Connected Waste and Overflow with Rubber Stopper.

### DIMENSIONS

Width over Rim, 30 inches.

Height to Top of Rim, 22½ inches.

Width of Roll-Rim, 3 inches.

Depth Inside, 17 inches.

Nominal Size, feet.....	4	4½	5	5½	6
As described .....	\$32.25	32.25	35.25	39.00	43.50
Bath only, Drilled for Fittings shown..	24.00	24.00	27.00	30.75	35.25
Length over Rim, Bath only .....	4'	4' 6"	5'	5' 6"	6'
Approximate weight of Bath, crated..	300 lbs.	325 lbs.	350 lbs.	375 lbs.	400 lbs.

For Exterior Finish and Decorations, see page 355.

## PORCELAIN ENAMELED BATH

" PERFECTO "

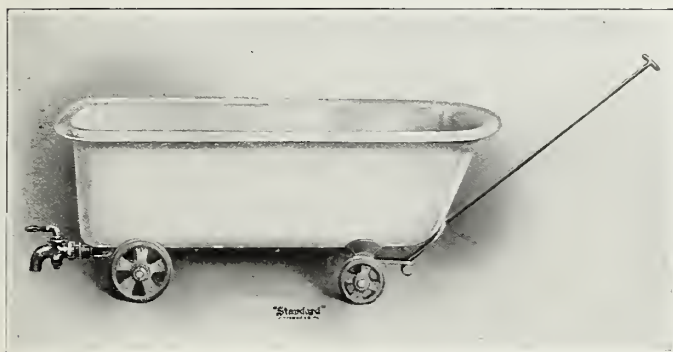


FIG. H-1139

Porcelain Enameled Bath, with Quick Opening Waste Valve, Wrought Iron Carriage and Swiveled Axle, Removable Wrought Iron Draw Handle and Rubber Tired Wheels.

Designed for use in Hospitals, Asylums and similar Institutions.

## DIMENSIONS

Width over Rim, 29½ inches.	Height to Top of Rim, 23 inches.
Width of Roll-Rim, 2¾ inches.	Depth Inside, 17 inches.

Nominal Size, feet	4	4½	5	5½	6
As described	\$46.00	46.00	49.00	52.75	57.25
Length over Rim, Bath only	4' 1½"	4' 7½"	5' 1½"	5' 7¾"	6' ½"
Approximate weight of Bath, crated	300 lbs.	325 lbs.	350 lbs.	375 lbs.	400 lbs.

For Exterior Finish and Decorations, see page 355.

## PORCELAIN ENAMELED BATH

"OHIO SPECIAL"



"D-W. Co."

FIG. H-1140

Porcelain Enameled Flat Bottom Bath, with 3 inch Full Roll-Rim, Acme Nickel-plated Top Supply and Waste Fittings,  $\frac{3}{4}$  inch Iron Pipe Size Supplies, Rubber Tube and Shampoo Spray.

### DIMENSIONS

Width over Rim, 24 inches.

Height to Top of Rim, 22 inches.

Width of Roll-Rim, 3 inches.

Depth Inside,  $17\frac{1}{4}$  inches.

Nominal Size, feet	4	4½	5	5½	6
As described	\$38.75	38.75	41.00	44.75	49.25
Bath only, Drilled for Fittings shown	21.75	21.75	24.00	27.75	32.25
If with Nickel-plated No. 4½ Fuller Double Bath Cock, ½ inch Iron Pipe Size Offset Supply Pipes and Eclipse Waste	34.50	34.50	36.75	40.50	45.00
If with Nickel-plated No. 4½ Fuller Double Bath Cock, ½ inch Iron Pipe Size Offset Supply Pipes, Connected Waste and Overflow, Chain and Rubber Stopper	30.00	30.00	32.25	36.00	40.50
Length over Fittings, as described	4' 3"	4' 9"	5' 3"	5' 9"	6' 3"
Approximate shipping weights	270 lbs.	300 lbs.	330 lbs.	360 lbs.	400 lbs.

For Exterior Finish and Decorations, see page 355.

## PORCELAIN ENAMELED BATH

"STERLING SPECIAL"

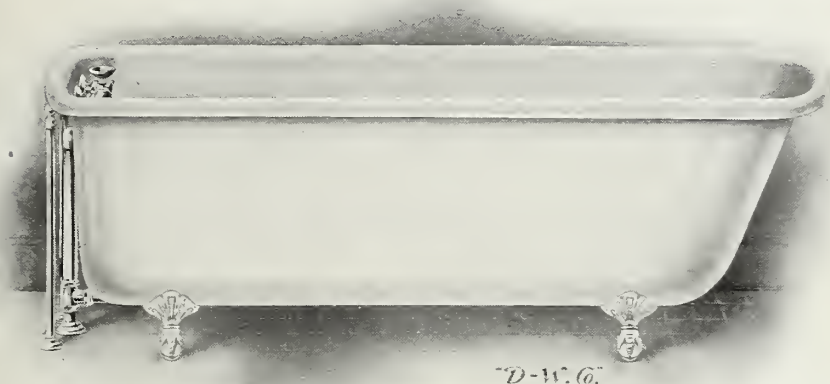


FIG. H-1141

Porcelain Enameled Flat Bottom Bath, with  $2\frac{1}{4}$  inch Roll-Rim, Nickel-plated No.  $4\frac{1}{2}$  Fuller Double Bath Cock,  $\frac{1}{2}$  inch Iron Pipe Size Offset Supply Pipes, Connected Waste and Overflow, Chain and Rubber Stopper.

## DIMENSIONS

Width over Rim, 25 inches.

Height to Top of Rim,  $22\frac{1}{2}$  inches.Width of Roll-Rim,  $2\frac{1}{4}$  inches.

Depth Inside, 17 inches.

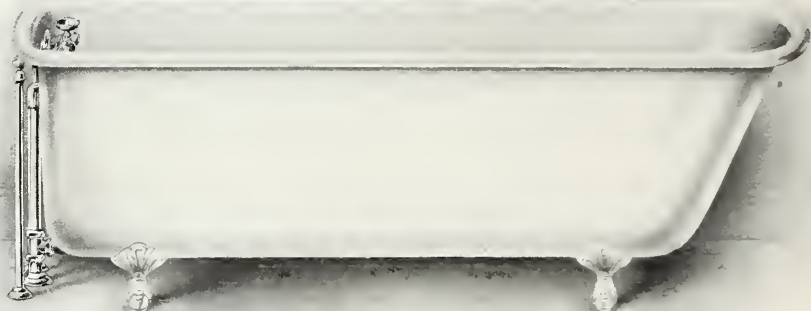
Nominal Size, feet .....	$4\frac{1}{2}$	5	$5\frac{1}{2}$
As described .....	\$30.00	32.25	36.00
Bath only, Drilled for Fittings shown .....	21.75	24.00	27.75
If with Nickel-plated No. $4\frac{1}{2}$ Fuller Double Bath Cock, $\frac{1}{2}$ inch Iron Pipe Size Offset Supply Pipes and Eclipse Waste .....	34.50	36.75	40.50
Length over Fittings, as described .....	4' 11"	5' 5"	5' 11"
Approximate shipping weights .....	300 lbs.	330 lbs.	360 lbs.

For Exterior Finish and Decorations, see page 355.



# PORCELAIN ENAMELED BATH

"ANGELES SPECIAL"



"D-W. Co."

FIG. H-1142

Porcelain Enameled Flat Bottom Bath, with 2 inch Roll-Rim, Nickel-plated No. 4½ Fuller Double Bath Cock, ½ inch Iron Pipe Size Offset Supply Pipes. Connected Waste and Overflow, Chain and Rubber Stopper.

## DIMENSIONS

Width over Rim, 26 inches.                      Height to Top of Rim, 21¼ inches.

Width of Roll-Rim, 2 inches.                      Depth Inside, 16¾ inches.

Nominal Size, feet	4	4½	5	5½
As described	\$30.00	30.00	32.25	36.00
Bath only, Drilled for Fittings shown	21.75	21.75	24.00	27.75
If with Nickel-plated No. 4½ Fuller Double Bath				
Cock, ½ inch Iron Pipe Size Offset Supply Pipes				
and Eclipse Waste	34.50	34.50	36.75	40.50
Length over Fittings, as described	4' 2"	4' 8"	5' 2"	5' 8"
Approximate shipping weights	260 lbs.	285 lbs.	315 lbs.	340 lbs.

For Exterior Finish and Decorations, see page 355.

PORCELAIN ENAMELED BATH

"VENICE"

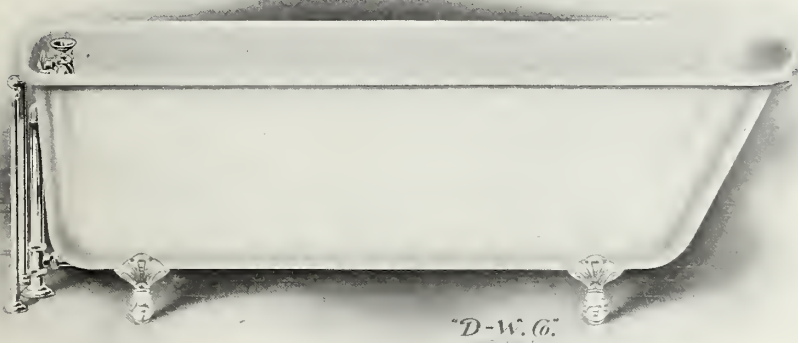


FIG. H-1143

Porcelain Enameled Narrow Space Flat Bottom Bath, with 1½ inch Rim, Nickel-plated No. 4½ Fuller Double Bath Cock, ½ inch Iron Pipe Size Offset Supply Pipes, Connected Waste and Overflow, Chain and Rubber Stopper.

DIMENSIONS

Width over Rim, 24 inches.                      Height to Top of Rim, 21 inches.  
Width of Roll-Rim, 1½ inches.                      Depth Inside, 15 inches.

Nominal Size, feet .....	4	4½	5	5½	6
As described .....	\$30.00	30.00	32.25	36.00	40.50
Bath only, Drilled for Fittings shown ..	21.75	21.75	24.00	27.75	32.25
Length over Fittings, as described .....	4' 2½"	4' 8½"	5' 2½"	5' 8½"	6' 2½"
Approximate shipping weights .....	240 lbs.	270 lbs.	300 lbs.	330 lbs.	370 lbs.

For Exterior Finish and Decorations, see page 355.

## PORCELAIN ENAMELED SITZ BATH

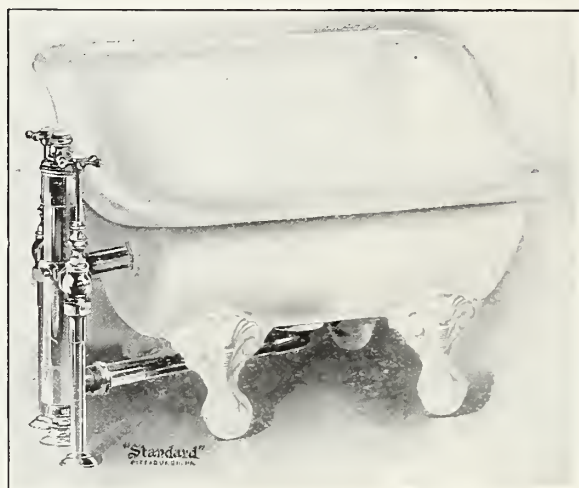


FIG. H-1144

Porcelain Enameled Sitz Bath, and Nickel-plated Imperial Bell Supply and Waste Fittings, with  $\frac{1}{2}$  inch Iron Pipe Size Supply Pipes.

### DIMENSIONS

Front to Back over Rim, $27\frac{3}{4}$ inches.	Width over Rim, $28\frac{1}{2}$ inches.
Width of Roll-Rim, 3 inches.	Depth at Waste Hole, $10\frac{1}{2}$ inches.
Height to Top of Rim at Back, 20 inches.	
Height to Top of Rim at Front, 15 inches.	

As described.....	\$36.50
Bath only, Drilled for Fittings shown .....	25.00
Approximate weight of Sitz Bath, crated .....	150 lbs.

For Exterior Finish and Decorations, see page 355.

## PORCELAIN ENAMELED FOOT BATH



FIG. H-1145

Porcelain Enameled Foot Bath, and Nickel-plated Imperial Bell Supply and Waste Fittings, with  $\frac{1}{2}$  inch Iron Pipe Size Supply Pipes.

## DIMENSIONS

	No. 1	No. 2
Width over Rim, inches .....	19 $\frac{1}{2}$	23
Width of Roll-Rim, inches .....	2 $\frac{1}{4}$	2 $\frac{1}{2}$
Length over Rim, inches .....	22 $\frac{1}{4}$	25
Height to Top of Rim, inches .....	15 $\frac{1}{2}$	18
Depth Inside at Waste Hole, inches .....	10 $\frac{3}{4}$	13 $\frac{1}{2}$
<hr/>		
Sizes .....	No. 1	No. 2
As described .....	\$25.00	26.50
Bath only, Drilled for Fittings shown .....	13.50	15.00
With Base instead of Feet, complete with Fittings to match Bath Fig. H-1132 .....	33.00	---
Approximate weight of Foot Bath, crated .....	150 lbs.	175 lbs.
Approximate weight of Foot Bath on Base, crated .....	200 lbs.	---

For Exterior Finish and Decorations, see page 355.

# PORCELAIN ENAMELED SHOWER BATH RECEPTOR

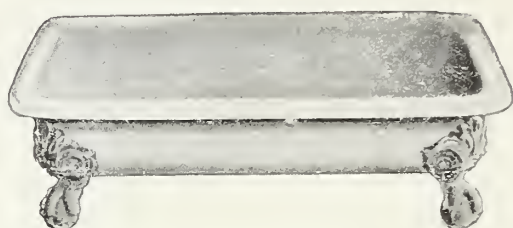


FIG. H-1146

Porcelain Enameled Receptor for Shower Bath with Nickel-plated Strainer and Waste Connection.

## DIMENSIONS

	No. 1	No. 2
Width over Rim, inches .....	36	42
Length over Rim, inches .....	36	42
Width of Roll-Rim, inches .....	2	2 $\frac{1}{4}$
Depth at Center, inches .....	6	8

	No. 1	No. 2
As described .....	\$25.00	\$35.00
With Base instead of Feet, to match Fig. H-1132 .....	32.50	45.00
Approximate weight, crated .....	250 lbs.	300 lbs.
Approximate weight with Base, crated .....	350 lbs.	400 lbs.

For Exterior Finish and Decorations, see page 355.



## BATH DECORATIONS

The exterior of all Baths, Receptors, Sitz and Foot Baths, unless otherwise specified, is unfinished, and painted with one coat of paint only. The process of finishing the exterior is of such a nature that it can only be applied at the factory, inasmuch as the casting must be dressed perfectly smooth, a character of work which requires special skill and facilities.

Every Bath decorated by us receives from six to sixteen coats of best enamel paint on the exterior, each coat being baked on in a drying oven at a temperature of 120° F., and is then rubbed down with pumice and rotten stone before the succeeding coats are applied. The number of coats vary from twelve to sixteen for the No. 1 finish, and from six to ten for the No. 2 finish.

When the exterior has been finished, gold lines or harmonious and artistic border decorations can be added. Our facilities for executing this branch of work are unsurpassed, and we have in our employ a corps of artists skilled in designing and executing artistic decorative effects.

Gold bands or lines can be put on either No. 1 or No. 2 finish. Borders can only be furnished on No. 1 finish. The No. 1 Zinc White finish will be furnished on all orders for exterior finish, unless otherwise specified, but can be furnished Ivory or Cream White if desired.

DESCRIPTION OF DECORATIONS.	On Foot Baths and Receptors.	On Sitz Baths.	On Baths and Pools.
No. 1 Zinc White Finish -----	\$6.50	\$8.75	\$13.00
No. 2 Zinc White Finish -----	4.50	6.00	9.00
For Gold Leaf Bands or Lines, add -----	1.50	2.00	3.00
No. 1 Finish with Greek Border -----	10.00	15.00	20.00
No. 1 Finish with Etruscan Border -----	10.00	15.00	20.00
No. 1 Finish with Fleur-de-lis Border -----	10.00	15.00	20.00
No. 1 Finish with Pompeian Border -----	12.00	18.00	24.00
No. 1 Finish with Violet Festoon Border -----	12.00	18.00	24.00
No. 1 Finish with Festoon Border -----	12.00	18.00	24.00
No. 1 Finish with Wild Rose Border -----	12.00	18.00	24.00
No. 1 Finish with Wild Rose and Ribbon Border -----	12.00	18.00	24.00
No. 1 Finish with Empire Border -----	12.00	18.00	24.00
No. 1 Finish with Poppy Border -----	14.00	21.00	28.00
No. 1 Finish with Shell and Ribbon Border -----	14.00	21.00	28.00
No. 1 Finish with Green Scroll and Spray Border -----	14.00	21.00	28.00
No. 1 Finish with Sweet Pea Border -----	14.00	21.00	28.00
No. 1 Finish with Chrysanthemum Border -----	14.00	21.00	28.00
No. 1 Finish with Festoon and Wreath Border -----	14.00	21.00	28.00
No. 1 Finish with Forget-me-not Festoon Border -----	14.00	21.00	28.00
No. 1 Finish with Flambeau Border -----	14.00	21.00	28.00
No. 1 Finish with Scroll and Rose Border -----	15.00	22.50	30.00
No. 1 Finish with Wild Vine Border -----	15.00	22.50	30.00
No. 1 Finish with Apple Blossom Border -----	15.00	22.50	30.00

## ALL STEEL AND STEEL CLAD BATHS



FIG. H-1147

3 inch Roll-Rim Seamless Steel Baths. Unless otherwise ordered, Shells will be punched as follows:

Waste Hole,  $1\frac{1}{4}$  inches.

Overflow, 2 inches.

Cock Holes,  $1\frac{1}{4}$  inches.

Size, feet .....	5	$5\frac{1}{2}$
Enameled Inside, Bath only .....	\$49.20	56.70
Weight of Bath, crated .....	197 lbs.	217 lbs.

## STEEL CLAD COPPER-LINED BATH—(Not Illustrated.)

With Connected Overflow and Oak Rim, and Drilled  $3\frac{3}{8}$  inches Center to Center; Outside painted.

Size, feet .....	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6
12 Ounce Lining (Bath Cock not included) .....	\$24.50	25.50	26.50	28.50
14 Ounce Lining (Bath Cock not included) .....	26.50	27.50	28.50	30.50
16 Ounce Lining (Bath Cock not included) .....	28.50	29.50	30.50	32.50

## ENAMELED STEEL BATH—(Not Illustrated.)

With Connected Waste and Overflow.

Size, feet .....	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6
American Pattern (Bath Cock not included) .....	\$19.50	20.50	21.50	24.50

## SHOWERS

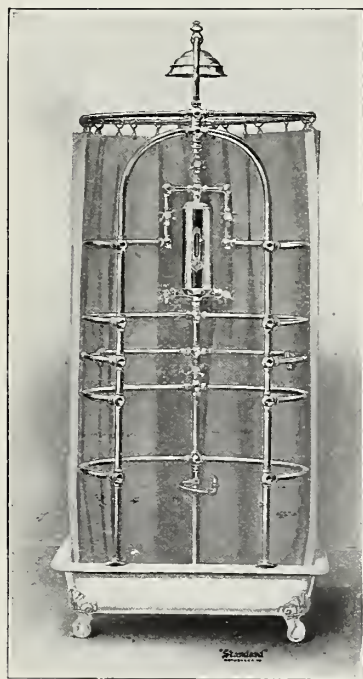


FIG. H-1148

Nickel-plated Brass Combination Shower and Needle Bath, with Bidet and Liver Sprays, with China Index Valves, Mixing Chamber, Thermometer and Rubber Curtain.

As described .....	\$200.00
For Porcelain Enameled 42 inch Receptor, with Nickel-plated Waste Strainer and Coupling, add .....	35.00
For No. 1 Zinc White Finish on Exterior of Receptor, add .....	6.50

SHOWERS

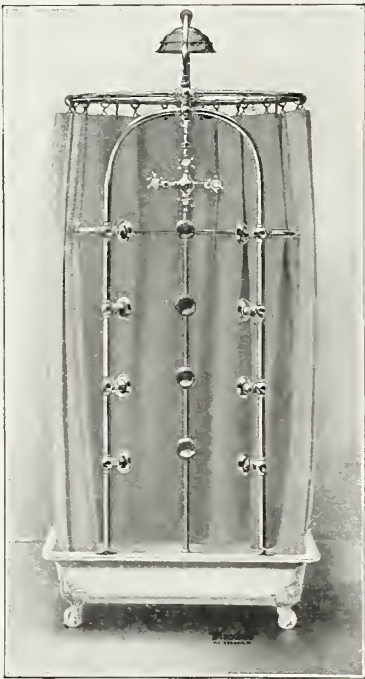


FIG. H-1149

Nickel-plated Brass Combination Shower and Needle Bath, with China Index Valves.

As described .....	\$175.00
For Porcelain Enameled 36 inch Receptor, with Nickel-plated Waste Strainer and Coupling, add.....	\$25.00
For No. 1 Zinc White Finish on Exterior of Receptor, add.....	6.50

## SHOWERS



FIG. H-1150

Nickel-plated Brass Combination Shower and Needle Bath, with China Index Valves and Rubber Curtain.

As described.....	\$60.00
For Nickel-plated Brass Mixing Chamber and Thermometer, add .....	16.00
For Porcelain Enameled 36 inch Receptor, with Nickel-plated Waste Strainer and Coupling, add.....	25.00
For No. 1 Zinc White Finish on Exterior of Receptor, add .....	6.50



## SHOWERS

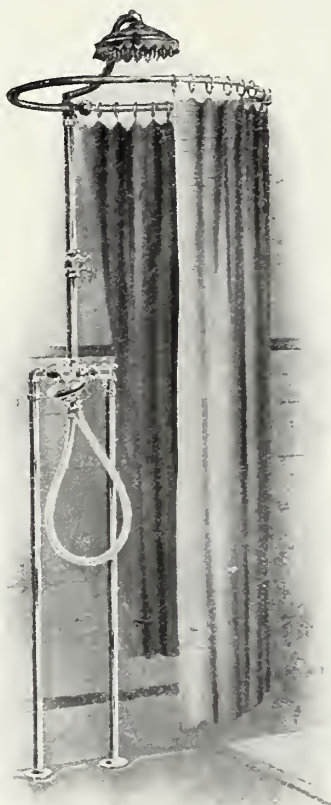


FIG. H-1151

## NICKEL-PLATED SHOWER BATH

Center to Center of Supplies,  $9\frac{1}{4}$  inches.

With $\frac{3}{8}$ inch Supplies and $\frac{1}{2}$ inch Mixing Column, as shown	\$38.50
With $\frac{1}{2}$ inch Supplies and $\frac{3}{4}$ inch Mixing Column, as shown	41.50

Iron Pipe Size Brass Tube used on above.

Price does not include Rubber Hose, Floor Slab or Strainer.

## SHOWERS

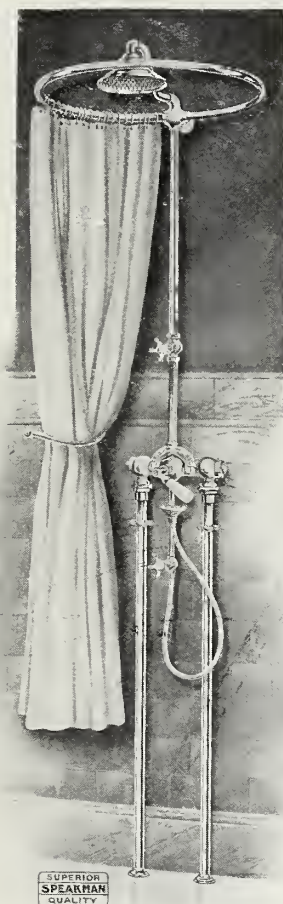


FIG. H-1152

Nickel-plated Brass Shower, with No. 1 Non-Scalding Regulating Valve, with White China Handle, $\frac{1}{2}$ inch Supply Pipes, $\frac{1}{2}$ inch Discharge Pipe leading to 8 inch Tubular Shower Head, Heavy Curtain Ring, White Duck Curtain, with Large Hold-back Hook, Rubber Bound Shampoo and Shampoo Holder	\$48.00
Ditto, without Shampoo	40.00
Ditto, with $\frac{1}{2}$ inch Valve, $\frac{1}{2}$ inch Supply Pipes, $\frac{3}{4}$ inch Discharge Pipe, 8 inch Tubular Shower Head and Shampoo	53.00
Ditto, without Shampoo	45.00
Ditto, with $\frac{3}{4}$ inch Valve, $\frac{3}{4}$ inch Supply and Discharge Pipe, $10\frac{1}{2}$ inch Tubular Shower Head and Shampoo	62.00
Ditto, without Shampoo	54.00

NON-SCALDING SHOWER AND NEEDLE BATH  
REGULATING VALVES

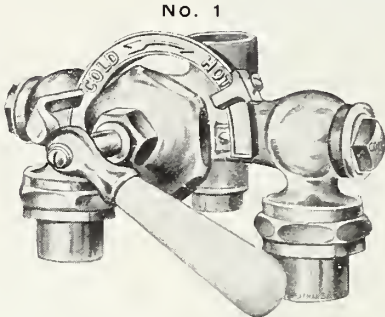


FIG. H-1153

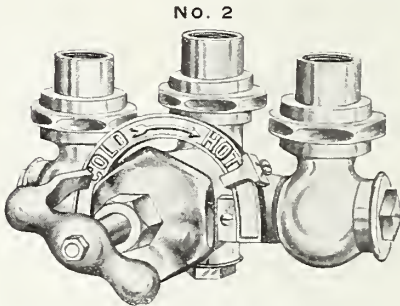


FIG. H-1154

FIG. H-1153—NO. 1 VALVES

Polished and Nickel-plated all over, with China White Handle.

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1
Each	\$15.00	20.00	25.00

FIG. H-1154—NO. 2 VALVES

Size, inches	$\frac{1}{2}$	$\frac{3}{4}$	1
Polished and Nickel-plated all over, each	\$15.00	20.00	25.00
Rough Body, Polished Mountings, Nickel-plated all over, each	13.50	18.50	23.00

The NON-SCALDING Regulating Valve is designed for use in connection with Showers and from the Exterior View it will be seen that the Valve is operated with one Handle, which not only regulates the temperature of the water but also opens and closes the Valve.

To open the Valve the Handle is turned so that the indicator attached to the Handle will travel from LEFT TO RIGHT; the temperature of the water is thus increased until the Indicator strikes the Adjustable Check on the Dial.

The Check can be set at any position on the Dial and thus prevent water of an excessive temperature from passing out of the Shower with the danger of scalding the bather.

COLD WATER is always obtained first upon turning on the Valve.

The No. 2 Valve is especially designed for bath establishments and for public service and is provided with a Heavy Flange at Back so that the Valve can be securely attached to Shower Stall and the inlets are arranged for the Supply Pipes coming from main above.

The Valves are SIMPLE IN CONSTRUCTION.

The Central Mixing Chamber and the spindles are the only working parts, and the Valve closes with the pressure. The Chamber not only mixes the water but acts as a cam to open and close the discs.

## SHOWERS

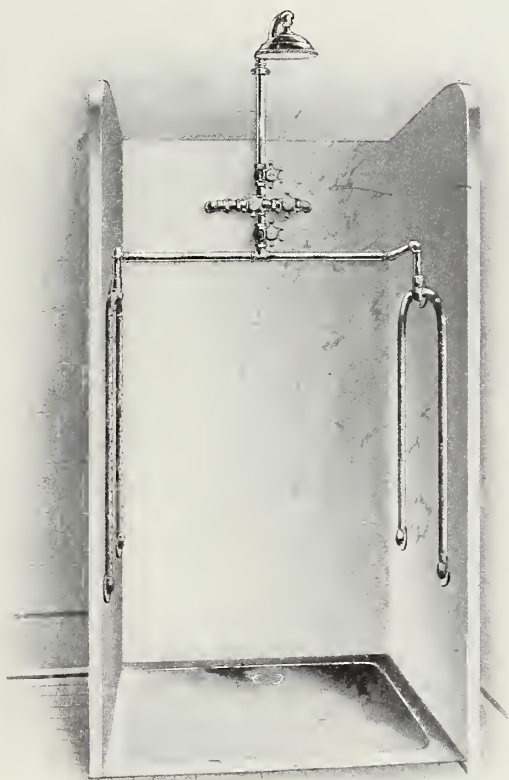


FIG. H-1155

Nickel-plated Needle and Shower Bath.

## DIMENSIONS

Center to Center of Supplies,  $18\frac{1}{2}$  inches.

Floor to Center of Supplies, 4 ft.  $6\frac{1}{2}$  inches.

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Nickel-plated, with Check Valves in Supplies, as shown.....	\$50.00
For Supply Pipes to Floor, add.....	10.00

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Iron Pipe Size Brass Tube used on above.

Price does not include Stall, Floor Slab or Strainer.

SHOWERS

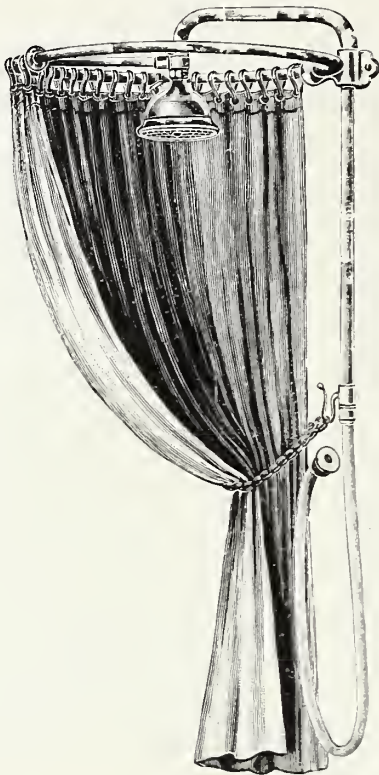


FIG. H-1156

Nickel-plated Overhead Shower, with  $\frac{3}{4}$  inch Nickel-plated Brass Tubing and Cast Fittings, Rubber or Duck Curtain, with Rings, and 6 feet of  $\frac{1}{2}$  inch Rubber Tubing fitted with Sternau Combination Metal and Rubber "Holdfast" Bulb.

DIMENSIONS

Size of Curtain, 66 x 78 inches.      Diameter of Curtain Ring, 26 inches.  
Diameter of Shower, 5 inches.

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Complete, with Rubber or Duck Curtain.....	\$25.00
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Rubber Curtain will be furnished, unless otherwise specified.



## SHOWERS

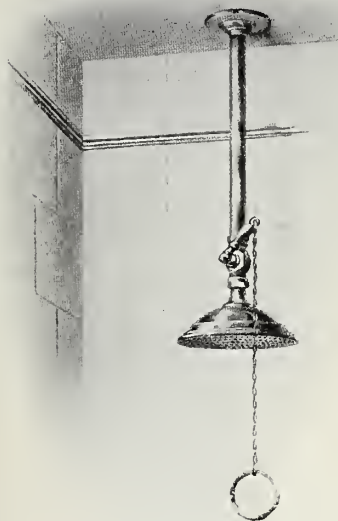


FIG. H-1157

FIG. H-1157

NICKEL-PLATED CEILING  
RAIN SHOWER

With  $\frac{1}{2}$  inch Supply Pipe, Self-closing Valve with Ring and Chain, and 5 inch Rain Shower with Inlet Air Valve and Removable Face.

As described .....	\$9.00
Shower as above, but with Pipe to Wall .....	10.00
For $8\frac{1}{2}$ inch Tubular Shower in place of 5 inch Rain Shower, add .....	1.00

FIG. H-1158

NICKEL-PLATED RING  
SHOWER

With  $\frac{1}{2}$  inch Supply Pipe, Self-closing Valve with Ring and Chain, and 18 inch Perforated Ring Shower.

As described .....	\$16.00
Shower as above, but with Pipe to Ceiling .....	15.00

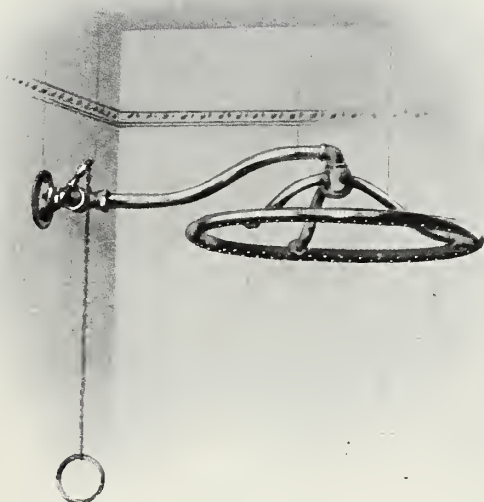


FIG. H-1158

## SHAMPOO FIXTURES



FIG. H-1159

FIG. H-1159

## NICKEL-PLATED SHAMPOO FIXTURE

With  $\frac{1}{2}$  inch Supplies to Wall. Supply Valves with China Indexed Handles. and  $2\frac{1}{2}$  inch Rubber-bound Shampoo Sprinkler and 5 feet of Rubber Tube.

As described..... \$10.00

FIG. H-1160

NICKEL-PLATED SHAMPOO  
FIXTURE

With  $\frac{1}{2}$  inch Supply Pipes to Floor, Supply Valves with China Index Handles, and  $2\frac{1}{2}$  inch Rubber-bound Shampoo Sprinkler and 5 feet of Rubber Tube.

As described..... \$13.00

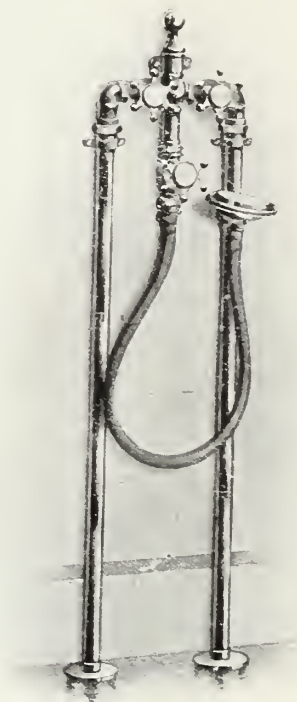


FIG. H-1160

## NICKEL-PLATED SHOWERS

PLAIN



FIG. H-1161

Nickel-plated Copper, Corrugated Face,  $7\frac{1}{2}$  inch Diameter,  $\frac{1}{2}$  inch Iron Pipe Size, Male Thread, each----- \$2.00

TUBULAR



FIG. H-1162

Nickel-plated Copper,  $7\frac{1}{2}$  inch Diameter,  $\frac{1}{2}$  inch Iron Pipe Size, Male Thread, each----- \$3.00  
9 inch Diameter,  $\frac{3}{4}$  inch Iron Pipe Size, Male Thread, each.. \$4.50

## SHAMPOO AND BATH SPRAYS



FIG. H-1163

Nickel-plated, with Long Shank.

Diameter of Face, inches-----	$2\frac{1}{2}$
Per doz-----	\$3.00



FIG. H-1164

Nickel-plated, with Rubber Ring.

Diam. of Face, in-----	$2\frac{1}{2}$	3	$3\frac{1}{2}$
Per doz-----	\$3.00	4.50	6.50



FIG. H-1165

Nickel-plated, with Rubber Ring, Detachable Nipple.

Diam. of Face, in--	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Per doz-----	\$5.50	8.00	12.00	21.00

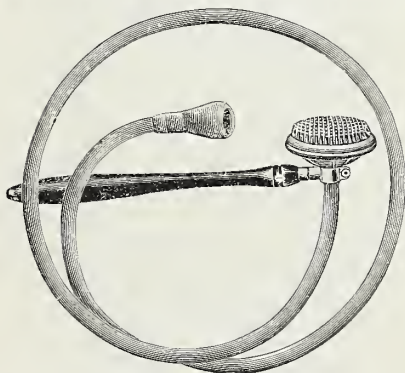


FIG. H-1166

No. 3, with Handle as shown, each	\$2.50
No. 1, less Handle, each	2.00

SOLID PORCELAIN LAVATORIES



FIG. H-1167

FIG. H-1167

SOLID PORCELAIN OVAL LAVATORY  
ON PORCELAIN PEDESTAL

Number .....	0	1	2
Size, inches.....	27x22	33x24	37x27
List, Lavatory only, "A" Quality ..	\$28.00	30.00	36.00
List, Pedestal only, "A" Quality ...	14.00	14.00	17.00
List, Lavatory only, "B" Quality ..	19.60	21.00	25.20
List, Pedestal only, "B" Quality ...	9.80	9.80	11.90

FIG. H-1168

SOLID PORCELAIN OVAL LAVATORY  
ON NICKEL-PLATED LEGS

Number .....	0	1	2
Size, inches.....	27x22	33x24	37x27
List, Lavatory only, "A" Quality ..	\$28.00	30.00	36.00
List, Lavatory only, "B" Quality ..	19.60	21.00	25.20
List, Nickel-plated Legs and Frame, with Rod parallel to Lavatory .....			\$35.00



FIG. H-1168

## SOLID PORCELAIN LAVATORIES



FIG. H-1169

FIG. H-1170

SOLID PORCELAIN SQUARE  
LAVATORY

Number	0	1
Size Slab, inches	24 x 22	26 x 21
Size Wall Back, inches	24 x 12	26 x 12
	"A" "B"	"A" "B"
List, Lavatory only	\$18.00 12.60	\$20.00 14.00
List, Wall Back, only	6.00 4.20	6.00 4.20
Number	2	
Size Slab, inches	30 x 22	
Size Wall Back, inches	30 x 15	
	"A" "B"	
List, Lavatory only	\$23.00 16.10	
List, Wall Back only	7.00 4.90	
	List.	
Nickel-plated Brass Legs and Iron Straps to Wall, per pair	\$10.00	
Iron Legs and Straps to Wall, Painted White Enamel, per pair	5.50	
Galvanized Iron Legs and Straps to Wall, per pair	5.00	
Iron Legs, Bronzed, with Straps to Wall, per pair	4.50	
Nickel-plated Standing Overflow and Waste, with China Name Plate	6.00	

FIG. H-1169

SOLID PORCELAIN IMPROVED  
LAVATORY

Number	1	2
Size, inches	30 x 24	33 x 24
	"A" "B"	"A" "B"
List, Lavatory only	\$30.00 21.00	\$36.00 25.20
List, Wall Back only, 16 inches High	8.00 5.60	8.00 5.60
List, Porcelain Legs and Iron Supports to Wall, per pair	12.00 8.40	12.00 8.40
List, Nickel-plated Legs and Iron Supports to Wall, per pair	10.00 10.00	10.00 10.00



FIG. H-1170



## SOLID PORCELAIN LAVATORIES



FIG. H-1171

FIG. H-1171

SOLID PORCELAIN ROUND FRONT  
LAVATORY

WITH SOLID BACK

## DIMENSIONS

Length at Back, 24 inches.

Back to Front, 23 inches.

Height of Back at Center, 8 inches.

---

List, Lavatory only, "A" Quality	\$24.00
List, Porcelain Leg and Strap,	
"A" Quality	9.50
List, Lavatory only, "B" Quality	17.00
List, Porcelain Leg and Strap,	
"B" Quality	6.50

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FIG. H-1172

SOLID PORCELAIN CORNER  
LAVATORY

WITH SOLID BACK

## DIMENSIONS

Length at Sides, 19½ inches.

Greatest Width, 28 inches.

Corner of Wall to Front, 25 inches.



FIG. H-1172

---

List, Lavatory only "A" Quality	\$26.00
List Porcelain Leg and Strap,	
"A" Quality	9.50
List, Lavatory only, "B" Quality	18.00
List, Porcelain Leg and Strap,	
"B" Quality	6.50
List, one Nickel-plated Brass Leg	
with Iron Strap to Wall	7.50
List, one Iron Leg, with Iron	
Back Pieces to Wall, Painted	
White Enamel, or Galvanized	
Iron	5.50

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## SOLID PORCELAIN LAVATORIES

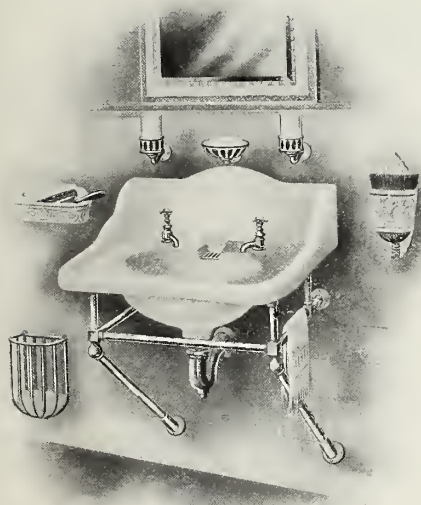


FIG. H-1173

SOLID PORCELAIN  
WITH INTEGRAL BACK

	"A"	"B"
List, Lavatory only 26 x 22 inches, with 7 inch Back.....	\$23.00	\$16.00
List, White Painted Iron Brackets to Wall, as shown.....		2.50

FIG. H-1173

FIG. H-1174

SOLID PORCELAIN  
CORNER LAVATORY

WITH BACK IN ONE PIECE

## DIMENSIONS

Length on Sides, 25 inches.  
Corner of Wall to Center of Bowl, 26  
inches.

List, Lavatory with Back only	\$36.00
List, Nickel-plated Brackets, per pair.....	10.00
List, Galvanized Iron Brackets, per pair.....	5.50
List, Nickel-plated Overflow Grid and Waste Plug, as shown.....	2.50
NOTE.—Also made for Nickel- plated Standing Waste and Overflow, with China Name Plate. List, Fixture.....	6.00



FIG. H-1174

## PORCELAIN ENAMELED LAVATORIES

Porcelain Enameled Iron Bath Tubs have been long and favorably known in the plumbing trade, but the use of Porcelain Enameled Ware for High Grade LAVATORIES and other Sanitary Fixtures is a more recent development.

The rapid growth in popularity of Enameled Iron Lavatories is due to the many points of advantage which they present. Among these may be mentioned their durability, their grace, symmetry and variety of design, and the beauty of the Pure White Gloss Finish of the Enamel.

All of the Lavatories shown on the following pages are made without any joint between the Bowl and the Body of the Lavatory, and many of them have the Slab and Back in one piece, without any crack or joint. The Enamel is smooth and non-absorbent, and is fully guaranteed against crazing or cracking.

Attention is also called to the concealed Wall Hanger furnished with many of the styles of Enameled Lavatories. This Fixture does away with the necessity for Brackets or Legs to support the Lavatory, and gives the outfit a neat and handsome appearance.

In the various subdivisions of this catalogue we illustrate Porcelain Enameled Ware in a great variety of Fixtures, including Bath Tubs, Water Closets, Urinals, Water Closet and Urinal Ranges, Kitchen and Slop Sinks, Laundry Tubs, etc. To all of these lines the same points of advantage apply—durability, beauty and sanitary efficiency.



FIG. H-1175

FIG. H-1175

### PORCELA

In cleaning Enameled Iron Lavatories, Baths, etc., acids, sand soap, or gritty substances must not be used, as they rapidly destroy the smooth, glossy surface of the Enamel. Where soap and warm water, or a weak solution of ammonia in water, do not produce the desired results we recommend Porcela, which is manufactured especially for cleaning Porcelain Enameled Ware.

Put up in convenient  $\frac{1}{2}$  pound packages, with Removable Cover and Perforated Top.

Per box ..... 15

FIG. H-1176

## BATH TUB ENAMEL

This is prepared specially for resisting the action of Hot and Cold Water, Steam or Moisture of any form, producing a hard, smooth Enamel Finish on Bath Tubs, Foot Baths, Sinks, etc.

$\frac{1}{4}$ Pint Cans, each .....	.25
$\frac{1}{2}$ Pint Cans, each .....	.45
Pint Cans, each .....	.75
Quart Cans, each .....	1.40



FIG. H-1176

PORCELAIN ENAMELED LAVATORY



FIG. H-1177

Porcelain Enameled "Copley" Design Lavatory, with Slab, Bowl and Apron all in one piece, Porcelain Enameled all over Pedestal, Nickel-plated Fuller Combination Supply and Waste Fitting with China Index Waste and China Handles, Unique Trap with Waste and Vent, and Supply Pipes to Wall.

50.00

DIMENSIONS

Slab, 18 x 27 inches.	Bowl, 11 x 15 inches.
Slab, 22 x 33 inches.	Bowl, 13 x 18 inches.

Size, inches	18 x 27	22 x 33
Enameled, all over, as described	\$50.00	55.50
Enameled all over, with Fuller Combination Supply and Waste Fitting only, less Supply Pipes and Trap	42.50	48.00
Enameled all over, Slab and Pedestal only (no Fittings or Supplies of any kind)	26.00	31.50

## PORCELAIN ENAMELED LAVATORY

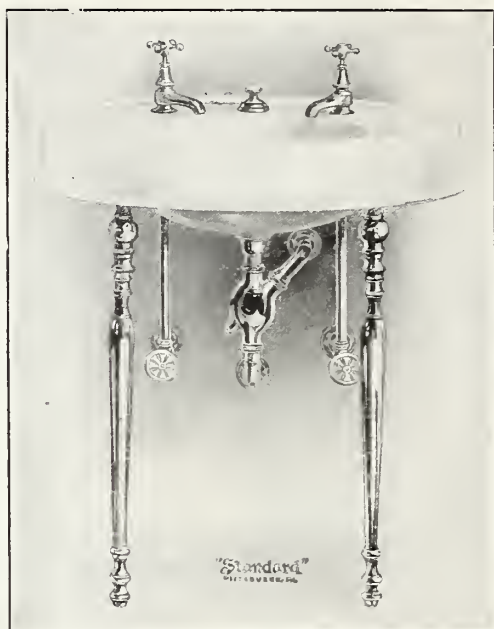


FIG. H-1178

Porcelain Enameled "Copley" Design Lavatory, with Slab, Bowl and Apron all in one piece, Nickel-plated Legs, with Wall Supports, Low Pattern Compression Faucets with China Indexes, Imperial Waste with China Index, Supply Pipes with Compression Stops, and Unique Trap with Waste and Vent to Wall.

## DIMENSIONS

Slab, 18 x 27 inches.

Bowl, 11 x 15 inches.

Slab, 22 x 33 inches.

Bowl, 13 x 18 inches.

Size, inches.....	18 x 27	22 x 33
Enameled all over, as described.....	\$45.50	51.00
Enameled all over, with Nickel-plated Legs, Wall Supports, and Imperial Waste only, less Faucets, Supply Pipes and Trap---	32.50	38.00



## PORCELAIN ENAMELED LAVATORY

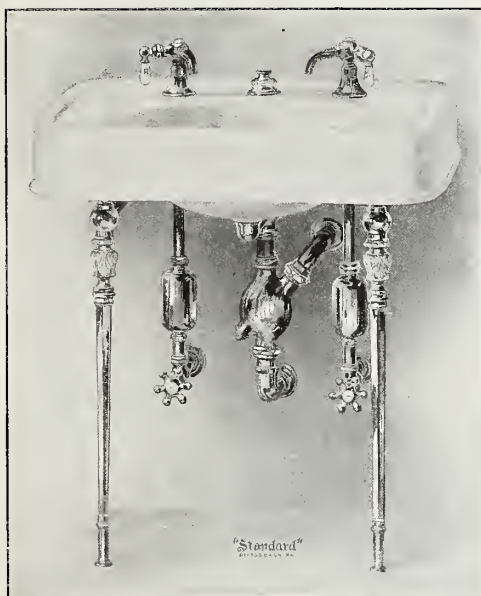


FIG. H-1179

Porcelain Enameled "Lenox" Design Lavatory, with Slab, Bowl and Apron all in one piece, Nickel-plated "Hexagon" Pattern Legs, with Wall Supports, Nickel-plated Fuller Faucets with China Handles and Indexes, Supply Pipes with Globe Air Chambers and Compression Stops with China Indexes, Imperial Waste with China Index, and Unique Trap with Waste and Vent to Wall.

NOTE.—This Lavatory is designed for use on marble or tile wainscoting, the Wall Supports being fitted to allow a space between Wall and rear Apron.

## DIMENSIONS

Slab, 20 x 24 inches.	Bowl, 12 x 15 inches.
Slab, 20 x 26 inches.	Bowl, 12 x 15 inches.
Slab, 22 x 27 inches.	Bowl, 13 x 17 inches.
Slab, 22 x 30 inches.	Bowl, 13½ x 19 inches.

Size, inches.....	20 x 24	20 x 26	22 x 27	22 x 30
Enameled all over, as described.....	\$18.00	49.00	52.50	55.00
Enameled all over, with Imperial Waste only, less Faucets, Supply Pipes and Trap....	30.00	31.00	34.50	37.00
If with Enameled Brackets, instead of Nickel-plated Legs, deduct, \$10.00				

## PORCELAIN ENAMELED LAVATORY

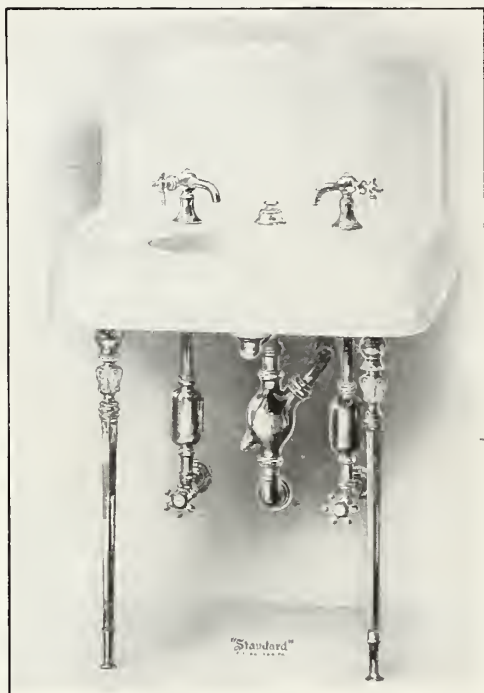


FIG. H-1180

Porcelain Enameled "Ophir" Design Lavatory, with Slab, Apron, Bowl and Back all in one piece, Nickel-plated "Hexagon" Pattern Legs, Fuller Faucets with China Handles and Indexes, Supply Pipes with Globe Air Chambers, and Compression Stops with China Indexes, Imperial Waste with China Index, and Unique Trap with Waste and Vent to Wall.

NOTE.—In addition to Nickel-plated Legs, this Lavatory is supported by Concealed Wall Hanger.

## DIMENSIONS

Slab, 20 x 24 inches.	Bowl, 12 x 15 inches.	Back, 12 inches.
Slab, 22 x 27 inches.	Bowl, 12 x 15 inches.	Back, 12 inches.

Size, inches.....	20 x 24	22 x 27
Enameled all over, as described.....	\$53.25	57.50
Enameled all over, with Imperial Waste only, less Faucets, Supply Pipes and Trap.....	35.25	39.50
Enameled Exterior only, with Concealed Wall Hanger, and Imperial Waste, less N. P. Legs, Faucets, Supply Pipes and Trap.....	22.00	25.50

Can be furnished with "D" Pattern Bowl, if desired. Specify when ordering.

## PORCELAIN ENAMELED LAVATORY

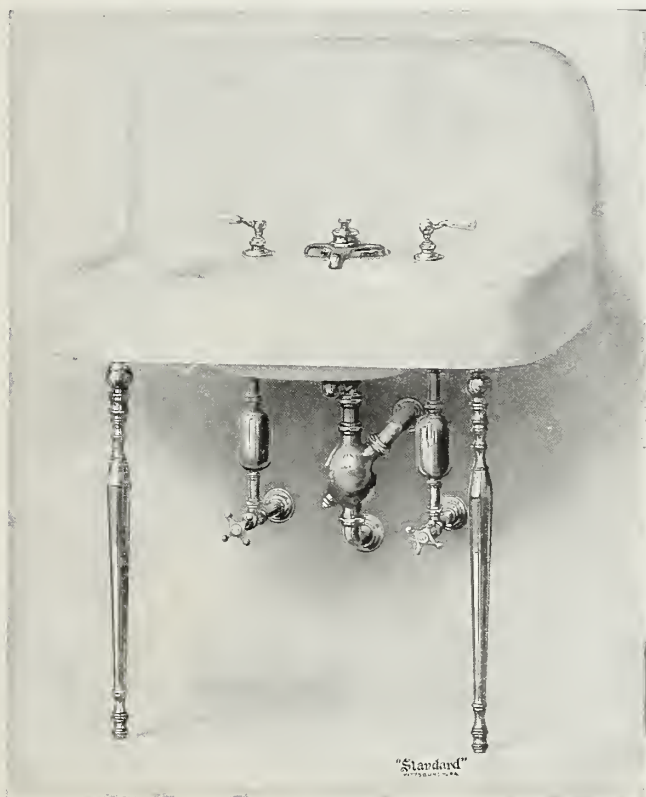


FIG. H-1181

Porcelain Enameled "Vera" Design Lavatory, with Slab, Apron, Bowl and Back all in one piece, Nickel-plated Legs, Nickel-plated Fuller Combination Supply and Waste Fittings with Globe Air Chambers and Compression Stops, with China Indexes, Unique Trap with Waste and Vent to Wall.

## DIMENSIONS

Width, 24 inches. Length, 33 inches.  
 Height of Back, 13½ inches. Apron, 5 inches.  
 "D" Pattern Bowl, 15 x 19 inches.

Enameled all over, as described	\$68.00
Enameled all over, with Fuller Combination Supply and Waste Fittings only, less Supply Pipes and Trap	55.00
Enameled Exterior, as described	64.00
Enameled Exterior, with Fuller Combination Supply and Waste Fittings only, less Supply Pipes and Trap	51.00

## PORCELAIN ENAMELED LAVATORY

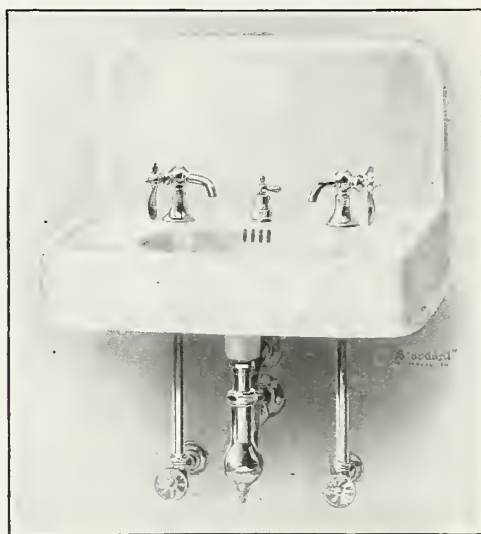


FIG. H-1182

Porcelain Enameled "Ophir" Design Lavatory. with Slab, Apron, Oval Bowl, Overflow and Back all in one piece, with Concealed Wall Hanger, Nickel-plated Fuller Faucets with China Indexes, Supply Pipes with Compression Stops, Keystone Waste, and Globe Trap, with Waste and Vent to Wall.

This Lavatory is supported by Concealed Wall Hanger instead of Brackets.

### DIMENSIONS

Slab, 18 x 24 inches.	Bowl, 12 x 15 inches.	Back, 10 inches.
Slab, 20 x 24 inches.	Bowl, 12 x 15 inches.	Back, 12 inches.
Slab, 22 x 27 inches.	Bowl, 12 x 15 inches.	Back, 12 inches.

Size, inches	18 x 24	20 x 24	22 x 27
Enameled all over, as described	\$35.00	38.75	43.00
Enameled all over, with Keystone Waste only, less Faucets, Supply Pipes and Trap	19.50	23.25	27.50
Enameled Exterior, as described	33.00	36.50	40.00
Enameled Exterior, with Keystone Waste only, less Faucets, Supply Pipes and Trap	17.50	21.00	24.50
If with Enameled Brackets, instead of Concealed Wall Hanger, add per pair			\$1.00

## PORCELAIN ENAMELED LAVATORY

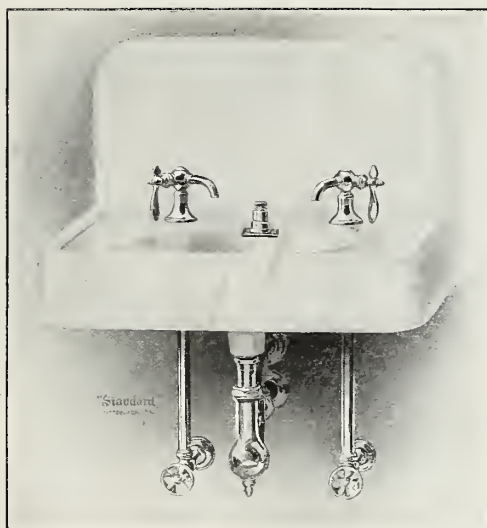


FIG. H-1183

Porcelain Enameled "Ophir" Design Lavatory, with Slab, Apron, "D" Pattern Bowl, Overflow and Back all in one piece, with Concealed Wall Hanger, Nickel-plated Fuller Faucets with China Indexes, Supply Pipes with Compression Stops, Improved Empire Lift Waste, and Globe Trap, with Waste and Vent to Wall.

This Lavatory is supported by Concealed Wall Hanger instead of Brackets.

## DIMENSIONS

Slab, 18 x 24 inches.	Bowl, 12 x 15 inches.	Back, 10 inches.
Slab, 20 x 24 inches.	Bowl, 12 x 15 inches.	Back, 12 inches.
Slab, 22 x 27 inches.	Bowl, 12 x 15 inches.	Back, 12 inches.

Size, inches .....	18 x 24	20 x 24	22 x 27
Enameled all over as described .....	\$35.00	38.75	43.00
Enameled all over, with Empire Waste, less Faucets, Supply Pipes and Trap .....	19.50	23.25	27.50
Enameled Exterior, as described .....	33.00	36.50	40.00
Enameled Exterior, with Empire Waste, less Faucets, Supply Pipes and Trap .....	17.50	21.00	24.50
If with Enameled Brackets instead of Concealed Wall Hanger, add per pair .....			\$1.00



## PORCELAIN ENAMELED LAVATORY

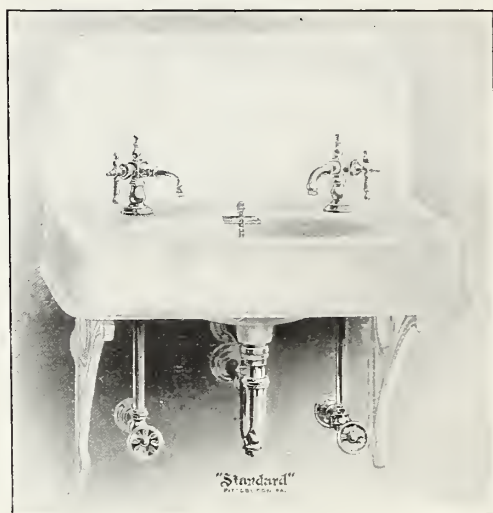


FIG. H-1184

Porcelain Enameled "Ophir" Design Lavatory, with Slab, Apron, "D" Pattern Bowl, Overflow, and Back all in one piece, Enameled Brackets, Nickel-plated Waste Plug, Rubber Stopper, Chain Stay and Chain, Fuller Faucets, Supply Pipes with Compression Stops, and "P" Trap with Waste and Vent to Wall.

### DIMENSIONS

Slab, 18 x 24 inches.	Bowl, 12 x 15 inches.	Back, 10 inches.
Slab, 20 x 24 inches.	Bowl, 12 x 15 inches.	Back, 12 inches.
Slab, 22 x 27 inches.	Bowl, 12 x 15 inches.	Back, 12 inches.

Size, inches	18 x 24	20 x 24	22 x 27
Enameled all over, as described	\$29.50	33.25	37.50
Enameled all over, less Faucets, Supply Pipes and Trap	17.00	20.75	25.00
Enameled Exterior, as described	27.50	31.00	34.50
Enameled Exterior, less Faucets, Supply Pipes and Trap	15.00	18.50	22.00

If with Concealed Wall Hanger, instead of Enameled Brackets,

deduct, per pair ----- \$1.00

## PORCELAIN ENAMELED LAVATORY

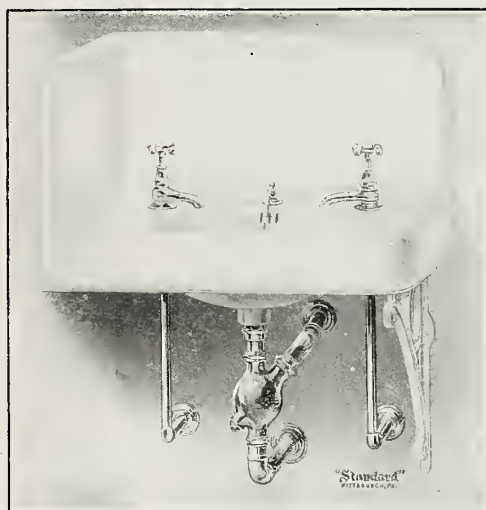


FIG. H-1185

Porcelain Enameled "Argus" Design Lavatory, with Slab, Apron, Bowl, Overflow, Back and Right or Left End all in one piece, Enameled Bracket, Nickel-plated Waste Plug, Rubber Stopper, Chain Stay and Chain, Low Pattern Compression Faucets, with China Indexes, Supply Pipes, and Unique Trap with Waste and Vent to Wall.

## DIMENSIONS

Slab, 18 x 24 inches.	Bowl, 12 x 15 inches.	Back, 10 inches.
Slab, 20 x 24 inches.	Bowl, 12 x 15 inches.	Back, 12 inches.
Slab, 22 x 27 inches.	Bowl, 12 x 15 inches.	Back, 12 inches.

Sizes, inches	18 x 24	20 x 24	22 x 27
Enameled all over, as described	\$31.00	35.25	40.50
Enameled all over, less Faucets, Supply Pipes and Trap	20.50	24.75	30.00
Enameled Exterior, as described	29.00	33.00	37.50
Enameled Exterior, less Faucets, Supply Pipes and Trap	18.50	22.50	27.00
If with Concealed Wall Hanger, instead of Enameled Bracket, deduct			.50

When ordering, specify if for Right or Left Corner. Will be furnished as shown unless otherwise specified.

## PORCELAIN ENAMELED LAVATORIES

Porcelain Enameled "Anglo" Design Lavatory, with Slab, "D" Pattern Bowl, Overflow, Apron and Back all in one piece, with Concealed Wall Hangers, Nickel-plated Fuller Pattern Faucets, with China Handles, Indexes and Unions, Waste Plug, Coupling and Rubber Stopper, Supply Pipes, and "P" Trap, with Waste and Vent to Wall.

### DIMENSIONS

Length on Side, 19 inches.  
Bowl, 11 x 15 inches.  
Height of Back, 8 inches.

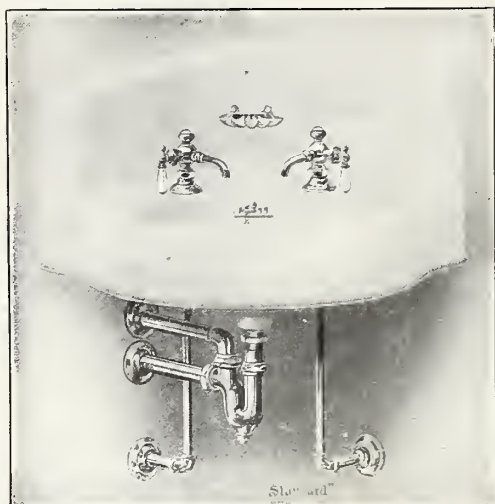


FIG. H-1186

Enameled all over, as described	\$22.50
Enameled all over, less Faucets, Supply Pipes and Trap	12.75
Enameled Exterior, as described	20.50
Enameled Exterior, less Faucets, Supply Pipes and Trap	10.75

Porcelain Enameled "Athena" Design Lavatory with Slab, "D" Pattern Bowl, Overflow, Back and Apron all in one piece, with Concealed Wall Hangers, Nickel-plated Waste Plug, Coupling and Rubber Stopper, Fuller Pattern Faucets, Supply Pipes, and "P" Trap, with Waste and Vent to Wall.

### DIMENSIONS

Length on Side, 20 inches.  
Bowl, 12 x 15 inches.  
Height of Back, 10 inches.

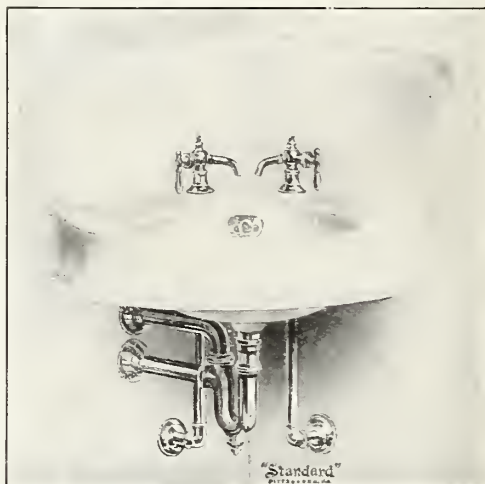


FIG. H-1187

Enameled all over, as described	\$23.50
Enameled all over, less Faucets, Supply Pipes and Trap	15.50
Enameled Exterior, as described	21.50
Enameled Exterior, less Faucets, Supply Pipes and Trap	13.50

## PORCELAIN ENAMELED LAVATORY

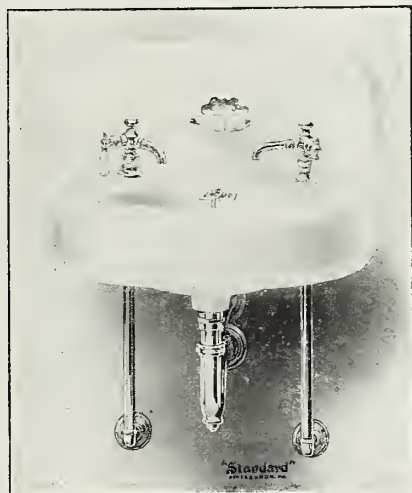


FIG. H-1188

Porcelain Enameled "Othello" Design Lavatory with Slab, "D" Pattern Bowl, Overflow, Apron and Back all in one piece, with Concealed Wall Hanger, Nickel-plated Waste Plug, Coupling and Rubber Stopper, Fuller Pattern Faucets, with China Handles, Indexes and Unions, Supply Pipes and "P" Trap, with Waste and Vent to Wall.

## DIMENSIONS

Length, 21 inches.

Bowl, 11 x 15 inches.

Height of Back, 8 inches.

Depth, 18 inches.

Enameled all over, as described	\$22.75
Enameled all over, less Faucets, Supply Pipes and Trap	13.00
Enameled Exterior, as described	20.00
Enameled Exterior, less Faucets, Supply Pipes and Trap	10.25
If with Enameled Brackets, add per pair	\$1.00

## PORCELAIN ENAMELED LAVATORY

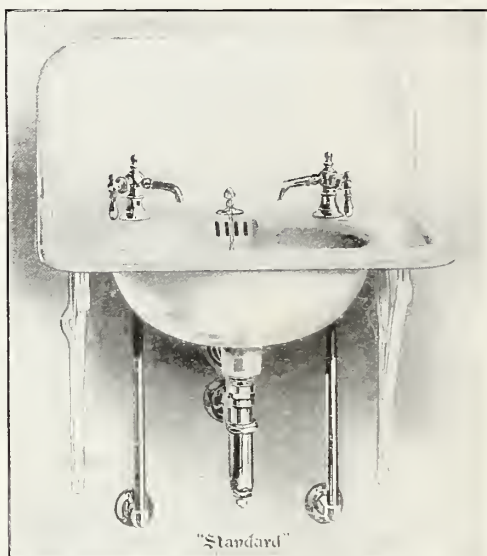


FIG. H-1189

Porcelain Enameled Nassau Design Lavatory, with Slab, Bowl, Overflow and Back all in one piece, with Brackets, Nickel-plated Waste Plug, Coupling, Chain Stay, Chain and Rubber Stopper, Fuller Pattern Faucets, Supply Pipes, and "P" Trap, with Waste and Vent to Wall.

### DIMENSIONS

Slab, 16 x 20 inches.	Bowl, 11 x 14 inches.	Height of Back, 10 inches.			
Slab, 18 x 20 inches.	Bowl, 11 x 14 inches.	Height of Back, 10 inches.			
Slab, 18 x 24 inches.	Bowl, 12 x 15 inches.	Height of Back, 10 inches.			
Slab, 20 x 24 inches.	Bowl, 12 x 15 inches.	Height of Back, 10 inches.			
Slab, 22 x 27 inches.	Bowl, 12 x 15 inches.	Height of Back, 10 inches.			
Size, inches	16 x 20	18 x 20	18 x 24	20 x 24	22 x 27
Enameled all over, as described	\$20.50	21.25	23.50	24.50	28.00
Enameled all over, less Faucets, Supply Pipes and Trap	12.50	13.25	15.50	16.50	20.00
Enameled Inside, as described	18.00	18.50	20.50	21.50	25.00
Enameled Inside, less Faucets, Supply Pipes and Trap	10.00	10.50	12.50	13.50	17.00

If with Concealed Wall Hangers instead of Brackets, deduct per pair .50

If with Keystone Waste, add to above list \$3.50



PORCELAIN ENAMELED LAVATORIES

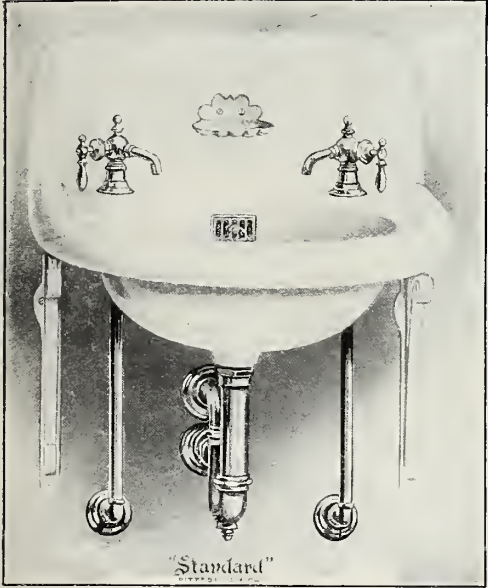


FIG. H-1190

FIG. H-1190

PORCELAIN ENAMELED  
"BEVERLY" DESIGN  
LAVATORY

With Slab, "D" Pattern Bowl, Overflow and Back all in one piece, with Brackets, Nickel-plated Waste Plug, Coupling and Rubber Stopper, Fuller Pattern Faucets, Supply Pipes and "P" Trap, with Waste and Vent to Wall.

DIMENSIONS

Length, 21 inches.  
Bowl, 12 x 15 inches.  
Depth, 18 inches.  
Height of Back, 8 inches.

Enameled all over, as described	\$18.50
Enameled all over, less Faucets, Supply Pipes and Trap	10.50
Enameled Inside, as described	15.75
Enameled Inside, less Faucets, Supply Pipes and Trap	7.75
If without Brackets, but with Concealed Wall Hanger, deduct per pair	.50

FIG. H-1191

PORCELAIN ENAMELED  
"ORTHO" DESIGN  
LAVATORY

With Slab, "D" Pattern Bowl, Back and Overflow all in one piece, with Brackets, Nickel-plated Fuller Pattern Faucets, Waste Plug, Coupling and Rubber Stopper, Nickel-plated Supply Pipes, and "P" Trap with Waste and Vent to Wall.

DIMENSIONS

Slab, 19 x 24 inches.  
Bowl, 12 x 15 inches.  
Height of Back, 10 inches.

Enameled all over, as described	\$24.25
Enameled all over, less Faucets, Supply Pipes and Trap	14.25
Enameled Inside, as described	21.50
Enameled Inside, less Faucets, Supply Pipes and Trap	11.50
If with Concealed Wall Hanger, instead of Brackets, deduct per pair	.50

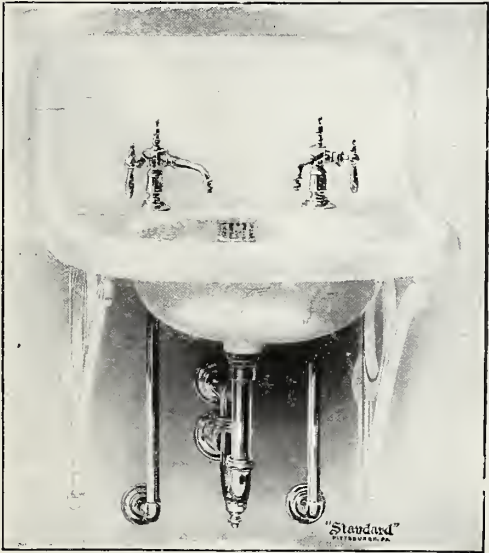


FIG. H-1191

## PORCELAIN ENAMELED LAVATORIES



FIG. H-1192

FIG. H-1192

### PORCELAIN ENAMELED "EVERETT" DESIGN LAVATORY

With Slab, "D" Pattern Bowl, Overflow and Back all in one piece, with Concealed Wall Hangers, Nickel-plated Waste Plug, Coupling and Rubber Stopper, Fuller Pattern Faucets, Supply Pipes and "P" Trap, with Waste and Vent to Wall.

#### DIMENSIONS

Length on Side, 19 inches.  
Height of Back, 8 inches.  
Bowl, 11 x 15 inches.

Enameled all over, as described.....	\$18.25
Enameled all over, less Faucets, Supply Pipes and Trap.....	10.25
Enameled Inside, as described.....	16.25
Enameled Inside, less Faucets, Supply Pipes and Trap.....	8.25

FIG. H-1193

### PORCELAIN ENAMELED "THALIA" DESIGN LAVATORY

With Slab, "D" Pattern Bowl, Overflow and Back all in one piece, with Concealed Wall Hangers, Nickel-plated Waste Plug, Coupling, and Rubber Stopper, Fuller Pattern Faucets with China Handles, Indexes and Unions, Supply Pipes and "P" Trap with Waste and Vent to Wall.

#### DIMENSIONS

Length on Side, 19 inches.  
Height of Back, 6½ inches.  
Bowl, 11 x 14 inches.

Enameled all over, as described.....	\$19.50
Enameled all over, less Faucets, Supply Pipes and Trap.....	9.75
Enameled Inside, as described.....	17.50
Enameled Inside, less Faucets, Supply Pipes and Trap.....	7.75



FIG. H-1193

## PORCELAIN ENAMELED LAVATORIES



FIG. H-1194

FIG. H-1194

**PORCELAIN ENAMELED  
"CRESCENT" DESIGN  
LAVATORY**

With Slab, Bowl, Overflow and Back all in one piece, with Brackets, Nickel-plated Waste Plug, Coupling and Rubber Stopper, Compression Pattern Faucets, Supply Pipes and "P" Trap with Waste and Vent to Wall.

**DIMENSIONS**

Width, 19 inches.  
Depth, 16 inches.  
Bowl, 11 x 14 inches.  
Height of Back, 6 inches.

Enameled all over, as described.....	\$17.00
Enameled all over, less Faucets, Supply Pipes and Trap.....	9.50
Enameled Inside, as described.....	14.50
Enameled Inside, less Faucets, Supply Pipes and Trap.....	7.00
It with Concealed Wall Hanger, instead of Brackets, deduct per pair..	.50

FIG. H-1195

**PORCELAIN ENAMELED  
"YALE" DESIGN  
LAVATORY**

With Slab, Bowl, Overflow and Back all in one piece, with Concealed Wall Hangers, Nickel-plated Waste Plug, Coupling and Rubber Stopper, Compression Pattern Faucets, Supply Pipes and "P" Trap with Waste and Vent to Wall.

**DIMENSIONS**

Length on Side, 16½ inches.  
Height of Back, 6 inches.  
Bowl, 11 x 14 inches.

Enameled all over, as described.....	\$16.50
Enameled all over, less Faucets, Supply Pipes and Trap.....	9.00
Enameled Inside, as described.....	14.50
Enameled Inside, less Faucets, Supply Pipes and Trap.....	7.00



FIG. H-1195

## PORCELAIN ENAMELED LAVATORIES



FIG. H-1196

FIG. H-1196

### PORCELAIN ENAMELED "ALVA" DESIGN LAVATORY

With Slab, Bowl, Overflow and Back all in one piece, Nickel-plated Compression Faucets, Supply Pipes and "P" Trap.

#### DIMENSIONS

Length of Back, 14 inches.  
Bowl, 12 inches.  
Height of Back, 5 inches.

Enameled all over, as described	\$14.50
Enameled all over, less Faucets, Supply Pipes and Trap	6.00
Enameled Inside, as described	13.50
Enameled Inside, less Faucets, Supply Pipes and Trap	5.00

FIG. H-1197

### PORCELAIN ENAMELED "AIDA" DESIGN LAVATORY

With Slab, Bowl, Overflow and Back all in one piece, Nickel-plated Compression Faucets, Supply Pipes and "P" Trap.

#### DIMENSIONS

Length of Side, 15 inches.  
Bowl, 12 inches.  
Height of Back, 5 inches.

Enameled all over, as described	\$14.50
Enameled all over, less Faucets, Supply Pipes and Trap	6.00
Enameled Inside, as described	13.50
Enameled Inside, less Faucets, Supply Pipes and Trap	5.00



FIG. H-1197



## PORCELAIN ENAMELED LAVATORY

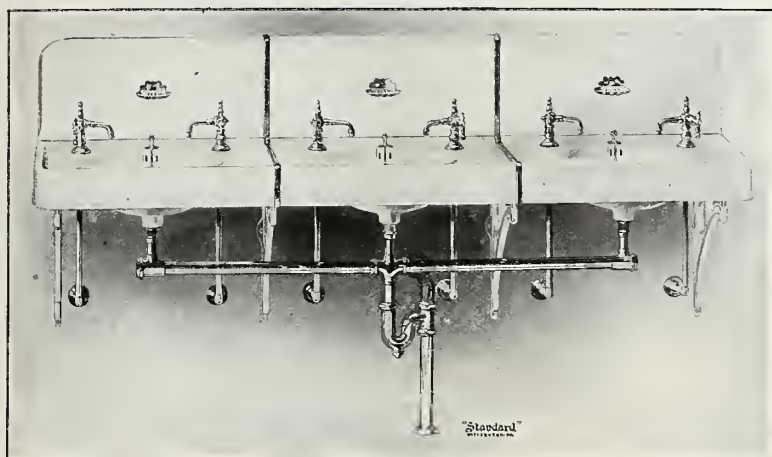


FIG. H-1198

Porcelain Enameled "Lenola" Design Sectional Lavatory, with Slab, Bowl, Overflow and Apron of each section all in one piece, separate Porcelain Enameled Backs, Brackets, Nickel-plated Union Strips, Waste Plugs, Couplings, Chain Stays, Chains and Rubber Stoppers, Nickel-plated Fuller Pattern Faucets, Supply Pipes, Continuous Waste and Vented "S" Trap.

## DIMENSIONS

Slab, 16 x 20 inches.	Bowl, 11 x 14 inches.	Back, 12 inches.
Slab, 18 x 24 inches.	Bowl, 12 x 15 inches.	Back, 12 inches.
Slab, 22 x 27 inches.	Bowl, 12 x 15 inches.	Back, 12 inches.

Size, inches.....	16 x 20	18 x 24	22 x 27
Enameled all over, Three Section, as described.....	\$80.50	85.00	103.00
Enameled all over, Three Section, less Faucets, Supply Pipes, Waste and Trap.....	49.50	54.00	72.00
Enameled Exterior, Three Section, as described.....	73.00	77.50	95.50
Enameled Exterior, Three Section, less Faucets, Supply Pipes, Waste and Trap.....	42.00	46.50	64.50
Each additional section, Enameled all over, less Faucets, Supply Pipes, Waste and Trap.....	16.50	18.00	24.00
Each additional section, Enameled Exterior, less Faucets, Supply Pipes, Waste and Trap.....	14.00	15.50	21.50
Faucets, Supply Pipes and Waste for each additional section.....	9.25	9.25	9.25



## PORCELAIN ENAMELED LAVATORY

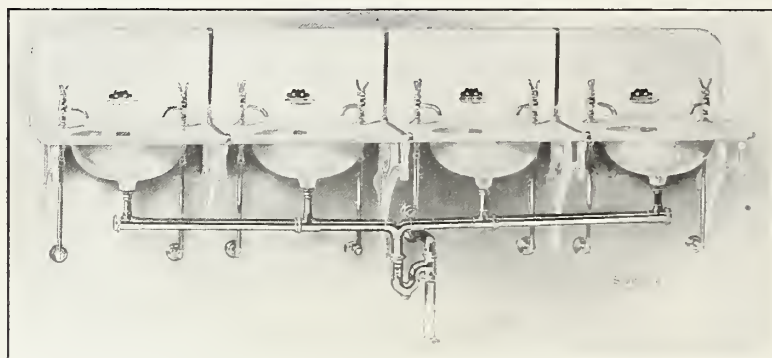


FIG. H-1199

Porcelain Enameled "Omar" Design Sectional Lavatory, with Slab, Bowl and Overflow of each section all in one piece, Separate Porcelain Enameled Backs, Painted or Bronzed Brackets, Nickel-plated Union Strips, Waste Plugs, Couplings and Rubber Stoppers, Nickel-plated Doherty Pattern Self-closing Faucets, Supply Pipes, Continuous Waste and Vented "S" Trap.

### DIMENSIONS

Slab, 16 x 20 inches.	Bowl, 11 x 14 inches.	Back, 12 inches.
Slab, 18 x 24 inches.	Bowl, 12 x 15 inches.	Back, 12 inches.

Size, inches.....	16 x 20	18 x 24
Enameled all over, Four Section, as described .....	\$88.00	96.00
Enameled all over, Four Section, less Faucets, Supply Pipes, Waste and Trap.....	50.00	58.00
Enameled Inside, Four Section, as described .....	78.00	86.00
Enameled Inside, Four Section, less Faucets, Supply Pipes, Waste and Trap .....	40.00	48.00
Each additional section, Enameled all over, less Faucets, Supply Pipes, Waste and Trap.....	12.50	14.50
Each additional section, Enameled Inside, less Faucets, Supply Pipes, Waste and Trap.....	10.00	12.00
Faucets, Pipes and Waste for each additional section .....	8.75	8.75

## PORCELAIN ENAMELED LAVATORY

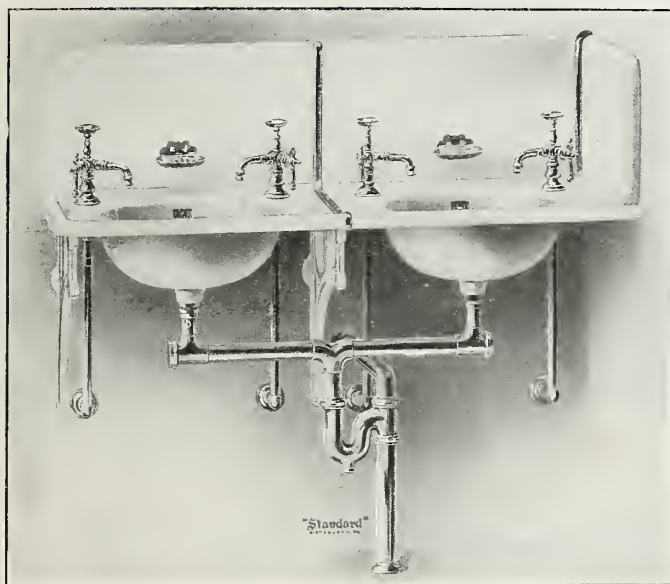


FIG. H-1200

Porcelain Enameled "Delphi" Design Sectional Lavatory, with Slab, Bowl and Overflow of each section all in one piece, separate Porcelain Enameled Backs with Right or Left End Piece, Painted or Bronzed Brackets, Nickel-plated Waste Plugs, Couplings and Rubber Stoppers, Nickel-plated Union Strips, Fuller Pattern Faucets with Jewel Cups, Supply Pipes, Continuous Waste and Vented "S" Trap.

NOTE.—Will be furnished as shown with Right End unless otherwise ordered.

## DIMENSIONS

Slab, 16 x 20 inches.	Bowl, 11 x 14 inches.	Height of Back, 12 inches.
Slab, 18 x 24 inches.	Bowl, 12 x 15 inches.	Height of Back, 12 inches.

Size, inches	16 x 20	18 x 24
Enameled all over, Two Section, as described	\$56.00	60.00
Enameled all over, Two Section, less Faucets, Supply Pipes, Waste and Trap	27.00	31.00
Enameled Inside, Two Section, as described	51.00	55.00
Enameled Inside, Two Section, less Faucets, Supply Pipes, Waste and Trap	22.00	26.00
Each additional section, Enameled all over, less Faucets, Supply Pipes, Waste and Trap	12.50	14.50
Each additional section, Enameled Inside, less Faucets, Supply Pipes, Waste and Trap	10.00	12.00
Faucets, Supply Pipes and Waste for each additional section	12.75	12.75

FACTORY WASH SINK

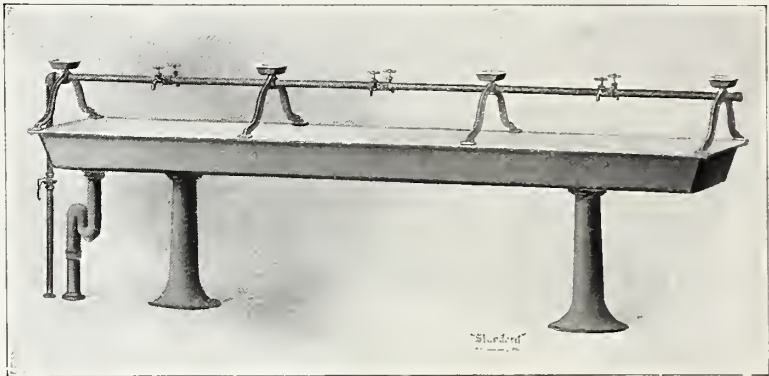


FIG. H-1201

Extra Heavy Painted Iron Factory Wash Sink, on Standards, fitted with  $\frac{3}{4}$  inch Galvanized Supply Pipe and Painted Supports over center of Sink,  $\frac{1}{2}$  inch Compression Bibbs, Soap Cups with Perforated Bottoms, Standing Overflow, 2 inch Painted Cast Iron "S" Trap, with Brass Trap Screw.

NOTE.—Trap can be furnished with Hub Vent, at same price, if desired.

Size, inches.

60 x 24 x 6, less Bibbs and Stop.....	\$25.75
72 x 24 x 6, less Bibbs and Stop.....	29.00
84 x 24 x 6, less Bibbs and Stop.....	33.25
96 x 24 x 6, less Bibbs and Stop.....	35.50
108 x 24 x 6, less Bibbs and Stop.....	38.00
120 x 24 x 6, less Bibbs and Stop.....	41.00

Add for Finished Compression Bibbs, each..... 1.00

Add for Rough Brass Stop and Supply Pipe from floor to Sink, each.. 1.50

## FACTORY WASH SINK

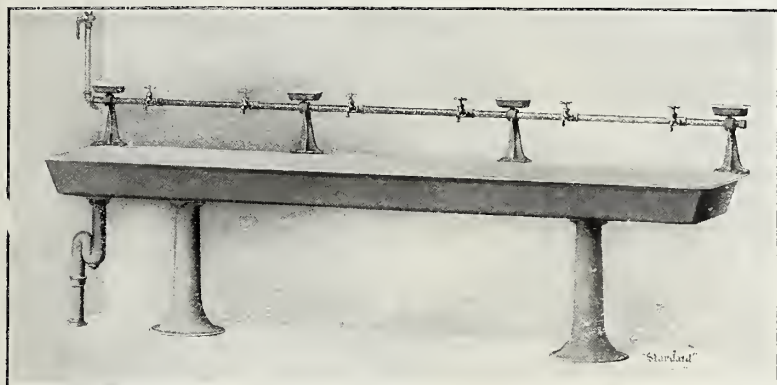


FIG. H-1202

Extra Heavy Painted Iron Factory Wash Sink, on Standards, fitted with  $\frac{3}{4}$  inch Galvanized Supply Pipe and Painted Supports over side of Sink,  $\frac{1}{2}$  inch Compression Bibbs, Soap Cups with Perforated Bottoms, Standing Overflow, 2 inch Painted Cast Iron "S" Trap, with Brass Trap Screw.

NOTE.—Trap can be furnished with Hub Vent, at same price, if desired.

Size, inches.

60 x 20 x 6, less Bibbs and Stop	\$23.00
60 x 24 x 6, less Bibbs and Stop	25.00
72 x 20 x 6, less Bibbs and Stop	26.25
72 x 24 x 6, less Bibbs and Stop	28.25
84 x 24 x 6, less Bibbs and Stop	30.50
96 x 24 x 6, less Bibbs and Stop	34.50
108 x 24 x 6, less Bibbs and Stop	37.00
120 x 24 x 6, less Bibbs and Stop	40.00
Add for Finished Compression Bibbs, each	\$1.00
Add for Rough Brass Stop and Supply Pipe from Floor to Sink	1.50

## SOLID PORCELAIN DRINKING FOUNTAINS

## SINGLE



FIG. H-1203

Solid Porcelain Roll-Rim Single Drinking Fountain.

List, Drinking Fountain only, "A" Quality.....	\$12.00
List, Drinking Fountain only, "B" Quality.....	8.40
List, Nickel-plated Outlet Fitting, less Trap.....	\$6.00
List, Nickel-plated Trap, 1¼ inches.....	4.00
List, Nickel-plated Brackets, per pair.....	5.00

## SINGLE



FIG. H-1204

Solid Porcelain Roll-Rim Single Drinking Fountain.

List, "A" Quality, as shown.....	\$14.00
List, "B" Quality, as shown.....	9.80



## PORCELAIN ENAMELED DRINKING FOUNTAINS

FIG. H-1205

**PORCELAIN ENAMELED  
"ALCOVE" DESIGN  
DRINKING FOUNTAIN**

With Nickel-plated Boston Pattern Self-closing Faucet, Open Strainer and Waste Connection to Wall.

For use in Office Buildings, Schools, Public Institutions, Hotels, etc.

**DIMENSIONS**

Height, 22 inches.

Width,  $12\frac{3}{4}$  inches.

Recess in Wall,  $3\frac{1}{2}$  inches.

Front to Back,  $10\frac{1}{2}$  inches.

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Enameled all over, as described .....	\$12.00
Enameled all over, less Faucet .....	10.00

---



FIG. H-1205

FIG. H-1206

**PORCELAIN ENAMELED  
FLAT BACK DRINKING  
FOUNTAIN**

With Concealed Wall Hanger, and Nickel-plated Boston Pattern Self-closing Faucet, Open Strainer and Waste Connection to Wall.

**DIMENSIONS**

Height, 22 inches.

Width,  $12\frac{1}{2}$  inches.

Depth, Front to Back, 9 inches.

---

Enameled all over, as described .....	\$10.00
Enameled all over, less Faucet .....	8.00

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FIG. H-1206

PORCELAIN ENAMELED DRINKING FOUNTAIN



FIG. H-1207

Porcelain Enameled "Artesian" Design Drinking Fountain with Nickel-plated Water Jet Cup.

For use in Schools, Public Institutions and all places where Drinking Cups would not be considered Sanitary.

DRINKING CUP FOR FOUNTAIN



FIG. H-1208

NICKEL-PLATED BRASS  
"BUBBLE" DRINKING CUP  
FOR DRINKING FOUNTAIN

It is suitable for public places, such as Schools, Public Institutions, Factories, Railroad Depots and Public Parks.

It dispenses with the old, rusty tin cup, dipper or glass.

It prevents the spread of contagious diseases, as the person using it drinks from the flowing water.

It is so constructed that the lips of the person using it do not come in contact with the metal. The water touched by the person drinking, immediately flows into the Waste Pipe, and cannot be touched by any other person.

Threaded for 1/4 inch Iron Pipe Connection, each ..... \$1.00

DIMENSIONS

Outside Diameter of Bowl, 13 1/2 inches.	Depth of Bowl, 4 inches.	
Size, Height, inches.....	30	36
Enameled all over, as described, less Supply and Waste Pipes.....	\$18.00	20.00
Enameled Inside, Exterior of Basin and Pedestal Painted as described, less Supply and Waste Pipes.....	13.00	15.00
If with Galvanized Supply and Waste Pipes, add.....	\$2.50	

## PORCELAIN ENAMELED BASINS

## ROUND BASIN—COMMON OVERFLOW



FIG. H-1209

Porcelain Enameled Round Basins, with Common Overflow, Nickel-plated Waste Plug, Coupling and Rubber Stopper.

## DIMENSIONS

Number .....	1	2	3
Inside Diameter of Bowl, inches .....	10	12	14
Number .....	1	2	3
Size, inches .....	12	14	16
Enameled all over, as described .....	\$2.75	3.00	3.50
Enameled Inside, as described .....	1.75	2.00	2.50

## ROUND BASIN—PATENT OVERFLOW

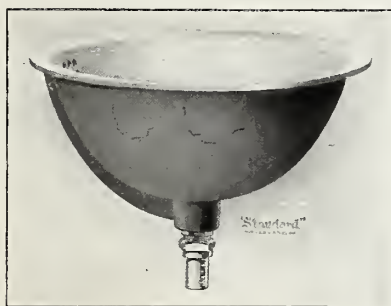


FIG. H-1210

Porcelain Enameled Round Basins, with Patent Overflow, Nickel-plated Waste Plug, Coupling and Rubber Stopper.

## DIMENSIONS

Number .....	1	2	3
Inside Diameter of Bowl, inches .....	10	12	14
Number .....	1	2	3
Size, inches .....	12	14	16
Enameled all over, as described .....	\$3.00	3.25	4.00
Enameled Inside, as described .....	2.00	2.25	3.00

PORCELAIN ENAMELED BASINS

OVAL BASIN—NO OVERFLOW



FIG. H-1211

Porcelain Enameled Oval Basins, with Nickel-plated Waste Plug, Coupling and Rubber Stopper.

DIMENSIONS		
Number	1	2
Inside, inches	12 x 15	13 x 17
Number	1	2
Size (Outside), inches	14 x 17	15 x 19
Enameled all over	\$3.50	\$4.00
Enameled Inside	2.50	3.00

OVAL BASIN—OVERFLOW



FIG. H-1212

Porcelain Enameled Oval Basins, with Overflow, Nickel-plated Strainer. Waste Plug, Coupling and Rubber Stopper.

DIMENSIONS		
Number	1	2
Inside, inches	12 x 15	13 x 17
Number	1	2
Size (Outside), inches	14 x 17	15 x 19
Enameled all over	\$4.00	\$4.25
Enameled Inside	3.00	3.25

## MARBLE LAVATORY

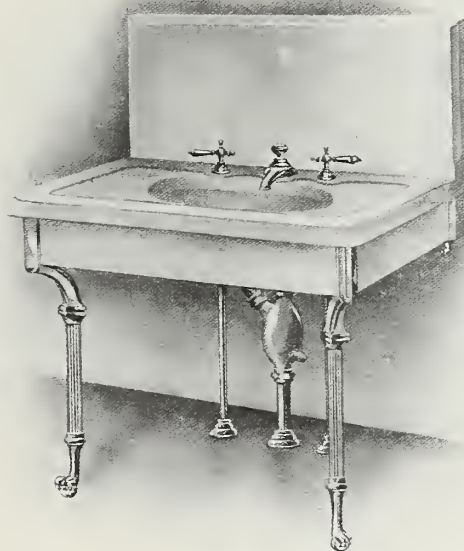


FIG. H-1213

## ITALIAN MARBLE LAVATORY

1½ inch Countersunk Italian Marble Slab, 30 x 22 inches, with 12 inch Back and 5 inch Aprons, 15 x 19 inch Vitreous China Oval No Overflow Basin, Nickel-plated Heavy Brass Offset Legs and Apron Holders, Fuller Combination Nozzle Supply and Waste Fixture with Nickel-plated ⅜ inch Iron Pipe Size Supply Pipes, "Eclipse" Trap with Vent and Waste to Floor.

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Price, complete, as described..... \$50.00

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## MARBLE LAVATORY

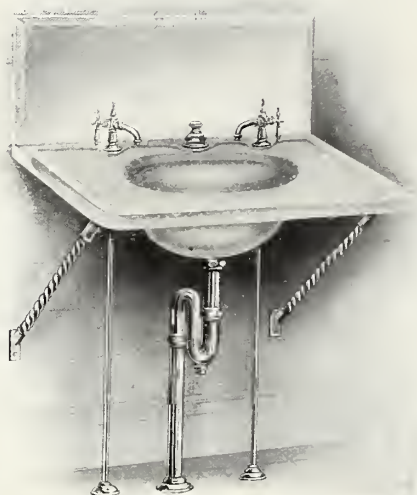


FIG. H-1214

## ITALIAN MARBLE LAVATORY

1 $\frac{1}{4}$  inch Countersunk Italian Marble Slab, 30 x 22 inch, with 12 inch Back, 15 x 19 Vitreous China Oval No Overflow Basin, No. 5 Brass Brackets, No. 2 Fuller Faucets, Nickel-plated  $\frac{3}{8}$  inch Supply Pipes, Nickel-plated "Unique" Waste, Index China Top, 1 $\frac{1}{4}$  inch "S" Trap with Waste to Floor.

---

Price, complete, as described .....	\$27.00
Same, with 30 x 20 inch Slab, with 10 inch Back and 14 x 17 inch Basin.....	25.00

---

## MARBLE LAVATORY



FIG. H-1215

## ITALIAN MARBLE LAVATORY

1 $\frac{1}{4}$  inch Countersunk Italian Marble Slab, 24 x 20 inch, with 8 inch Back, 14 x 17 inch Vitreous China Oval P. O. Basin, 16 x 18 inch Nickel-plated Steel Brackets, Nickel-plated Compression Faucets,  $\frac{3}{8}$  inch Nickel-plated Supply Pipes, Chain and Stay, and 1 $\frac{1}{4}$  inch Nickel-plated "S" Trap and Waste to Floor.

---

Price, complete, as described .....	\$15.50
Same, with 20 x 28 inch Slab .....	16.50
Same, with 30 x 20 inch Slab .....	17.00
For 14 inch Round Basin, deduct .....	\$1.25

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# MARBLE LAVATORY

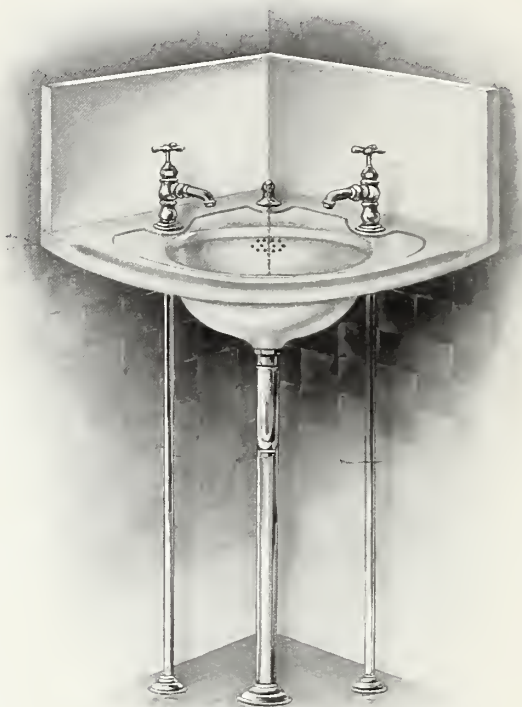


FIG. H-1216

## ITALIAN MARBLE LAVATORY

1 $\frac{1}{4}$  inch Countersunk Italian Marble Corner Slab, 22 x 22 inch, with 8 inch Backs, 14 x 17 inch Vitreous China Oval P. O. Basin, Nickel-plated Compression Faucets,  $\frac{3}{8}$  inch Nickel-plated Supply Pipes, Chain and Stay, 1 $\frac{1}{4}$  inch Nickel-plated "S" Trap and Waste to Floor.

---

Price, complete, as described .....	\$16.00
Same, with 14 inch Round Basin .....	14.75
* Same, with 20 x 20 x 8 inch Slab, 14 inch Bowl .....	14.00

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## MARBLE CLOSET FLOOR SLABS

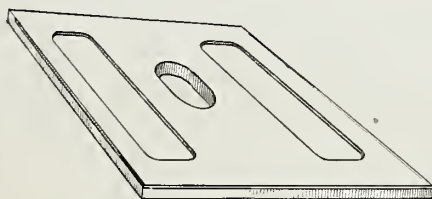


FIG. H-1217

No. 1. 24 inches wide x 27 inches deep, cut for Closets roughing in from  $11\frac{1}{2}$  to  $13\frac{1}{2}$  inches.

No. 2. 24 inches wide x 27 inches deep, cut for Closets roughing in from 14 to 16 inches.

No. 3. 24 inches wide x 30 inches deep, cut for Closets roughing in from  $11\frac{1}{2}$  to  $13\frac{1}{2}$  inches.

No. 5. 24 inches wide x 27 inches deep, cut for Closets roughing in from 10 to  $10\frac{1}{2}$  inches.

The roughing in measurements given are based on the Slab extending under Wainscoting a distance of  $\frac{1}{2}$  inch.

Our Floor Slabs are countersunk as shown, making them suitable for use with any Pattern of Closet. The Opening for Closet is cut oblong, allowing for a variation in the distance from center of Soil Pipe to Wall. They may be furnished in Italian, American, Tennessee or other fancy marbles. Net prices per square foot on application. Order by number.

## MARBLE LAVATORY SLABS

## TABLE OF DIMENSIONS

## SQUARE MARBLE SLAB WITH BACK

Height of Back, inches	8	10	12	15	Add for Aprons.	
Size, *24 x 20'', Contents	5' 5''	5' 10''	6' 2''	6' 8''	2' 10''	3' 4''
Size, *28 x 20'', Contents	6' 3''	6' 8''	7' 1''	7' 9''	3' 0''	3' 6''
Size, *30 x 20'', Contents	6' 8''	7' 2''	7' 7''	8' 3''	3' 1''	3' 7''
Size, 30 x 21'', Contents	6' 11''	7' 4''	7' 9''	8' 5''	3' 2''	3' 8''
Size, 30 x 22'', Contents	7' 1''	7' 7''	8' 0''	8' 8''	3' 3''	3' 10''
Size, 33 x 22'', Contents	7' 9''	8' 3''	8' 9''	9' 6''	3' 6''	3' 11''
Size, 36 x 22'', Contents	8' 5''	9' 0''	9' 6''	10' 4''	3' 7''	4' 1''

## SQUARE MARBLE SLAB WITH BACK AND RIGHT OR LEFT END

Height of Back, inches	8	10	12	5	Add for Aprons.	
Size, *24 x 20'', Contents	6' 6''	7' 2''	7' 10''	2' 0''	2' 4''	3' 0''
Size, *28 x 20'', Contents	7' 4''	8' 1''	8' 9''	2' 2''	2' 6''	3' 2''
Size, *30 x 20'', Contents	7' 9''	8' 6''	9' 3''	2' 3''	2' 7''	3' 3''
Size, 30 x 21'', Contents	8' 1''	8' 9''	9' 6''	2' 3''	2' 7''	3' 3''
Size, 30 x 22'', Contents	8' 4''	9' 1''	9' 10''	2' 4''	2' 8''	3' 4''

## CORNER MARBLE SLAB WITH TWO BACKS

Height of Back, inches	8	10	12
Size, *20 x 20'', Contents	5' 8''	6' 3''	6' 10''
Size, *22 x 22'', Contents	6' 7''	7' 2''	7' 10''
Size, 24 x 24'', Contents	7' 6''	8' 2''	8' 10''
Size, 26 x 26'', Contents	8' 5''	9' 2''	9' 11''

The above tables give the sizes of Marble Lavatory Slabs usually sold, with the number of square feet in each when Slab is  $1\frac{1}{4}$  inch thick. For contents of  $1\frac{1}{4}$  inch Slabs of other sizes, and of  $1\frac{1}{2}$  inch and thicker Slabs of all sizes, see table on page 404.

Marble Slabs are countersunk, with moulded edges, and backs are  $\frac{7}{8}$  inch thick with square edges. Fancy mouldings on Slabs or backs are extra. Prices on application.

Slabs of the sizes marked (\*), when  $1\frac{1}{4}$  inch thick, with backs 8 inches or higher, and cut for Round or Oval Patent Overflow Basins with two Cocks, are known as "stock sizes." Slabs cut for all other styles of Basins, or for Combination Cocks, or with corners rounded over 1 inch radius, and all Slabs of sizes not marked (\*), are "special."

Above Slabs may be furnished in Italian, American, Tennessee or other fancy marbles. Net prices per square foot on application.

# CONTENTS OF MARBLE AND SLATE SLABS

From the subjoined table may be computed the superficial contents of Slabs from 6 x 12 inches to 47 x 56 inches, the figures in the upper line showing the widths and those in the vertical column showing the lengths. Marble less than 8 inches wide, and slate less than 6 inches wide, to be calculated as 8 and 6 inches wide respectively.

In calculating contents of Marble Slabs, add for each finished edge 1 inch on Slabs up to 1 1/4 inches thick, and 2 inches on Slabs 1 1/4 inches or thicker; Slate Slabs are calculated actual size, without additions.

For example—To ascertain the contents of a 1 1/4 inch marble Slab 30 x 24 inches, with back 8 inches high, add one inch for each finished edge, making the Slab 32 x 25 inches, and size of back 32 x 9 inches. Find in side column the length, 32 inches, and in upper line the width, 25 inches. To the right of the 32 inch, and below the 25 inch size, will be found the contents of the Slab, 5 feet 7 inches. In the same manner find contents of back, 2 feet. Total, 7 feet 7 inches. Find contents of ends in same manner.

Length Inches.	WIDTH IN INCHES.																																	
	6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22	
	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in		
12	6				8			9				10																						
13	7				9			10				11																						
14	7				9			10				11																						
15	8				9			10				11																						
16	8				10			11																										
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41	1				1																													
42	1				1																													
43	1				1																													
44	1				1																													
45	1				1																													
46	1				1																													
47	2				2																													

Length Inches.	WIDTH IN INCHES.																		
	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39		
	ft in	ft in	ft in	ft in	ft in	ft in	ft in	ft in	ft in	ft in	ft in	ft in	ft in	ft in	ft in	ft in	ft in	ft in	ft in
23	3	8																	
24	3	10	4																
25	4	4	2	4	4														
26	4	4	4	4	6	4	8												
27	4	4	4	6	4	8	4	11											
28	4	6	4	8	4	10	5	1	5	3	5	5	5	5	5	5	5	5	5
29	4	8	4	10	5	5	5	3	5	5	5	5	5	5	5	5	5	5	5
30	4	10	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
31	4	11	5	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
32	5	1	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
33	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
34	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
35	5	5	7	5	10	6	1	6	4	6	7	8	8	8	8	8	8	8	8
36	5	5	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
37	5	11	6	2	6	5	6	8	6	8	6	8	6	8	6	8	6	8	6
38	6	1	6	4	6	7	6	10	7	7	7	7	7	7	7	7	7	7	7
39	6	3	6	6	6	9	7	7	7	7	7	7	7	7	7	7	7	7	7
40	6	5	6	6	6	11	7	7	7	7	7	7	7	7	7	7	7	7	7
41	6	7	6	10	7	1	7	5	7	7	7	7	7	7	7	7	7	7	7
42	6	9	7	7	4	7	7	7	7	7	7	7	7	7	7	7	7	7	7

Add one inch for each Finished Edge.



## SYPHON EDUCATION RANGE CLOSET

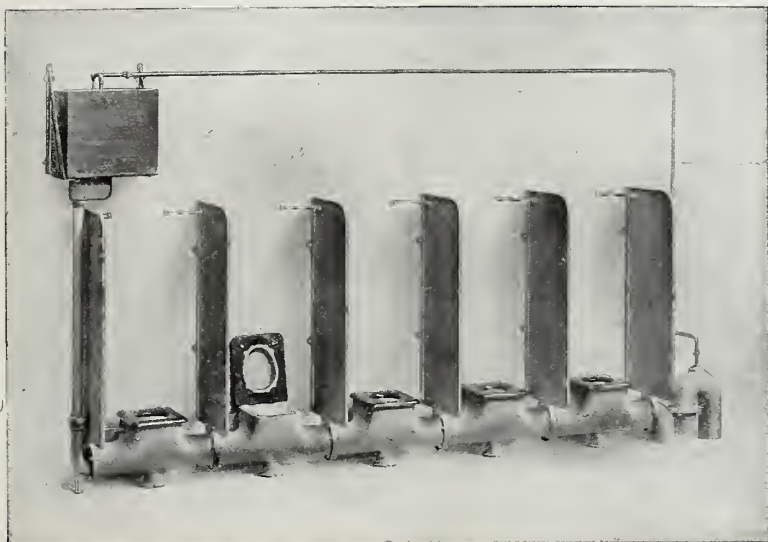


FIG. H-1218

Automatic Syphon Education Range Closets, with Syphon Education Copper-lined Wood Tank, Galvanized Iron Flush Pipe, Hinged Oak Seats with Iron Reinforcements, and Painted Iron Partitions.

Number of Seats.	With 24 inch Seats.		With 27 inch Seats.		With 30 inch Seats	
	Painted.	Enameled.	Painted.	Enameled.	Painted.	Enameled.
3	\$94.25	\$107.50	\$97.75	\$112.25	\$100.75	\$119.00
4	112.00	128.50	116.00	134.50	121.75	142.00
5	132.00	152.00	137.50	159.50	144.25	168.75
6	151.00	174.25	157.25	183.50	164.75	193.50
7	170.75	197.50	178.00	208.00	186.25	219.75
8	189.00	219.00	197.50	231.25	206.50	244.00
9	208.50	242.25	219.25	257.00	229.75	271.75
10	227.50	264.50	240.25	280.75	252.25	298.00
11	247.50	287.25	261.50	305.75	275.25	325.00
12	267.25	310.00	282.25	330.50	296.25	350.50
13	287.75	333.75	303.75	355.50	-----	-----
14	307.25	357.00	-----	-----	-----	-----
15	327.50	380.75	-----	-----	-----	-----

For Enameled Seats, add \$2.25 to the List for each.

If Seats are wanted Stationary instead of Hinged, deduct 50 cents, List, each.

If Seat Covers are wanted, add \$1.00 List, each.

If with Painted Cast Iron Backs, at following additional:

24 inch Backs, \$6.50, List, each; 27 inch Backs, \$7.50, List, each; 30 inch Backs, \$8.50, List, each.

Painted Cast Iron Tanks can be furnished if desired, without extra charge.

Lead-lined Tanks can be furnished to order. Prices on application. Can be furnished with 5 x 2 inch Vent Connection on each section for Sheet Iron Vent Pipe, or tapped for 2 inch Iron Pipe Vent. For either style of Vent, add \$1.50, List, each. Unless otherwise ordered, Range with Enameled Interior, 24 inch Seats and Outlet at Right End, as shown, will be sent.

## SYPHON EDUCATION RANGE CLOSET

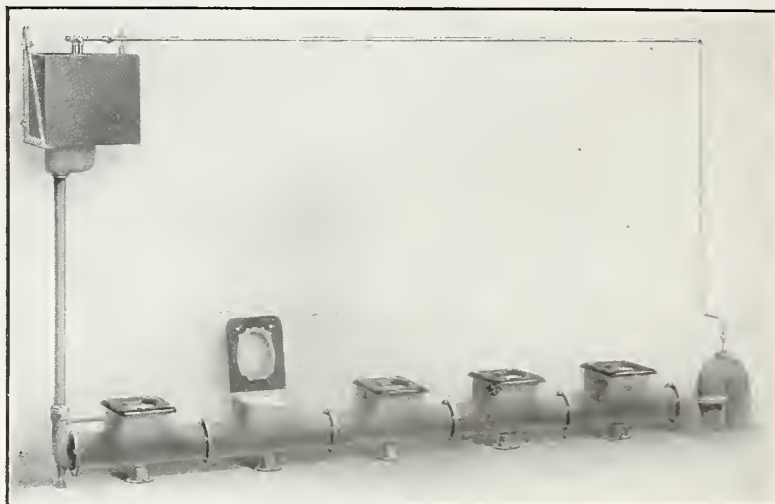


FIG. H-1219

Automatic Syphon Education Range Closets, with Syphon Education Copper-lined Wood Tank, Galvanized Iron Flush Pipe and Hinged Oak Seats with Iron Reinforcements.

Number of Seats	With 24 inch Seats		With 27 inch Seats		With 30 inch Seats	
	Painted	Enameled	Painted	Enameled	Painted	Enameled
3	\$68.25	\$81.50	\$71.75	\$86.25	\$74.75	\$93.00
4	79.50	96.00	83.50	102.00	89.25	109.50
5	93.00	113.00	98.50	120.50	105.25	129.75
6	105.50	128.75	111.75	138.00	119.25	148.00
7	118.75	145.50	126.00	156.00	134.25	167.75
8	130.50	160.50	139.00	172.75	148.00	185.50
9	143.50	177.25	154.25	192.00	164.75	206.75
10	156.00	193.00	168.75	209.25	180.75	226.50
11	169.50	209.25	183.50	227.75	197.25	247.00
12	182.75	225.50	197.75	246.00	211.75	266.00
13	196.75	242.75	212.75	264.50	-----	---
14	209.75	259.50	-----	-----	-----	-----
15	223.50	276.75	-----	-----	-----	-----

For Enameled Seats, add \$2.25 to the List for each.

If Seats are wanted Stationary instead of Hinged, deduct 50 cents List, each.

If Seat Covers are wanted, add \$1.00, List, each.

For Painted Cast Iron Partitions, add \$6.50 to the List for each.

If with Painted Cast Iron Backs at following additional:

24 inch Backs, \$6.50, List, each ; 27 inch Backs, \$7.50, List, each ; 30 inch Backs, \$8.50, List, each.

Painted Cast Iron Tanks can be furnished if desired, without extra charge.

Lead-lined Tanks can be furnished to order. Prices on application. Can be furnished with 5 x 2 inch Vent Connection on each Section for Sheet Iron Vent Pipe, or tapped for 2 inch Iron Pipe Vent. For either style of Vent, add \$1.50. List, each. Unless otherwise ordered, Range with Enameled Interior, 24 inch Seats and Outlet at Right End, as shown, will be sent.

## SYPHON RANGE CLOSET

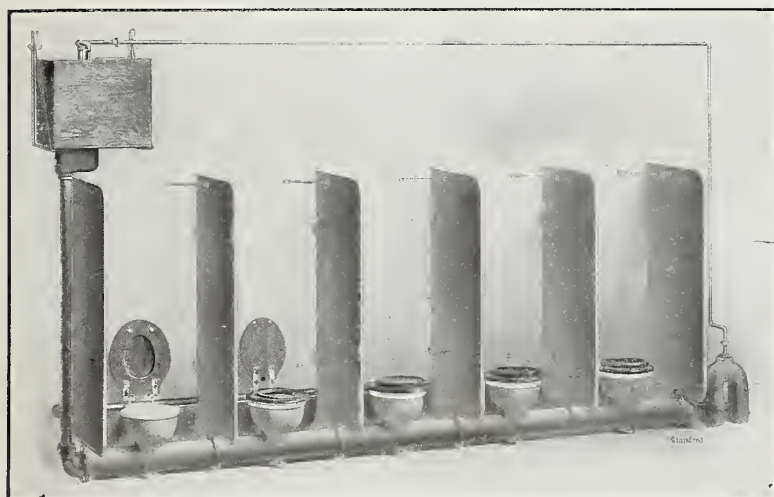


FIG. H-1220

Automatic Individual Bowl Syphon Range Closets, with Syphon Education Copper-lined Wood Tank, Galvanized Iron Flush Pipe and Brass Pipe and Union Couplings connected to the Flushing Rim of Bowls, and Hinged Oak Seats with Covers, and Painted Iron Partitions.

Number of Seats	With 24 inch Seats		With 27 inch Seats		With 30 inch Seats	
	Painted	Enameled	Painted	Enameled	Painted	Enameled
3	\$111.25	\$123.25	\$113.75	\$128.00	\$117.00	\$134.00
4	134.00	149.25	137.25	152.50	141.00	162.25
5	156.50	175.25	160.50	179.25	166.50	191.00
6	180.25	202.50	185.25	207.25	190.50	219.50
7	203.00	228.25	209.50	234.75	215.50	249.25
8	225.75	254.50	233.25	262.00	240.75	277.50

If with Painted Cast Iron Backs at following additional :

24 inch Backs, \$6.50, List, each; 27 inch Backs, \$7.50, List, each; 30 inch Backs, \$8.50, List, each.

If without Seat Covers, deduct \$1.00, List, each.

If 24 or 27 inch Seat Range is wanted with one 30 inch Seat with Private Enclosure (no Back) add to 24 inch Seat Painted or Enameled Ranges \$30.00 List; 27 inch Painted or Enameled, \$29.00 List; and for one Private Enclosure (no Back) on 30 inch Seat, Painted or Enameled Ranges, add \$28.00, List.

Painted Cast Iron Tanks can be furnished if desired without extra charge.

Lead-lined Tanks can be furnished to order. Prices on application.

Unless otherwise ordered, Range with Enameled Interior, 24 inch Seats and Outlet on Right End, as shown, will be sent.

## SYPHON RANGE CLOSET

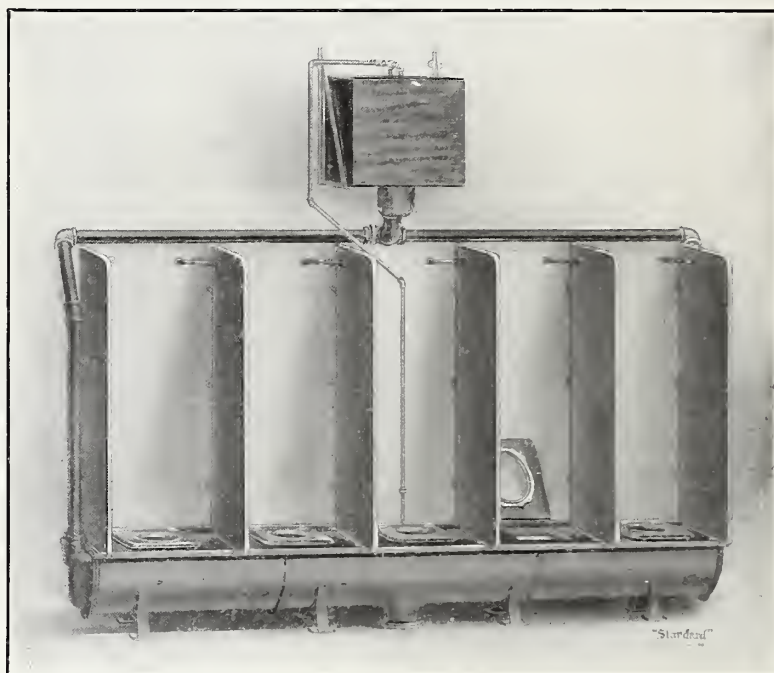


FIG. H-1221

Automatic Syphon Range Closets with Center Outlet, with Syphon Eduction Copper-lined Wood Tank, Galvanized Iron Flush Pipes, Hinged Oak Seats, with Iron Reinforcements, Oak Top Plate, Back Strip and Painted Iron Partitions. Perforated Washdown Pipes, fitted inside of Range (Brass on Enameled and Galvanized Iron on Painted Ranges).

Number of Seats.	With 24 inch Seats.		With 27 inch Seats.	
	Painted.	Enameled.	Painted.	Enameled.
2	\$95.50	\$106.50	\$97.25	\$109.00
3	117.00	130.75	119.50	134.75
4	138.25	155.50	141.75	160.25
5	162.75	183.00	167.50	189.25
6	187.00	210.25	192.25	217.25
7	211.75	237.75	217.50	246.00
8	234.75	263.75	242.00	273.75
9	257.75	290.00	267.50	302.75
10	281.75	317.00		

If with Painted Cast Iron Backs, at following additional: 24 inch Backs, \$6.50, List, each; 27 inch Backs, \$7.50, List, each; 30 inch Backs, \$8.50, List, each.

If Seat Covers are wanted, add, \$1.00, List, each.

If Enameled Iron Hinged Seats and Frame Strips are desired in place of Wood Frame and Seats, add \$5.00, List, each Seat, either size.

If Enameled Iron Top Plates with Hinged wood Seats and Covers are desired, instead of Wood Frame and Seats, add \$4.25, List, each Seat, either size.

If with Ventilating Extension for 14 inch Pipe, add to List \$6.00 for Painted and \$3.00 for Enameled Ranges, with Top Plates and Seats, as shown.



## WASHOUT RANGE CLOSET

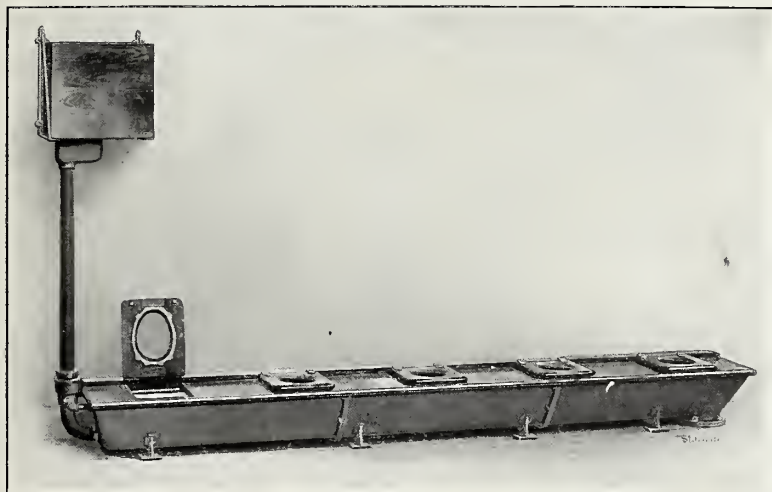


FIG. H-1222

Automatic Washout Range Closet, with Automatic Copper Lined Wood Tank, Galvanized Iron Flush Pipe, Hinged Oak Seats with Iron Reinforcements, Oak Top Plate and Back Strip. Perforated Washdown Pipes fitted inside of Range (Brass on Enameled and Galvanized Iron on Painted Ranges).

Number of Seats.	With 24 inch Seats.		With 27 inch Seats.		With 30 inch Seats.	
	Painted.	Enameled.	Painted.	Enameled.	Painted.	Enameled.
2	\$50.50	\$59.50	\$52.75	\$62.25	\$54.75	\$65.25
3	61.75	73.25	65.50	78.25	68.50	87.25
4	73.50	88.50	77.75	94.50	82.25	101.00
5	87.00	105.50	92.50	113.25	98.50	121.75
6	98.25	120.50	105.25	130.25	111.50	139.00
7	111.25	137.00	119.25	148.00	127.00	159.25
8	122.50	151.75	131.25	164.25	140.75	177.00
9	136.75	169.75	147.00	184.00	-----	-----
10	148.25	184.75	-----	-----	-----	-----

If with Painted Cast Iron Backs, at following additional:

24 inch Backs, \$6.00, List, each; 27 inch Backs, \$7.00, List, each; 30 inch Backs, \$8.00, List, each.

For Painted Cast Iron Partitions, add \$6.00 each to List.

If Seat Covers are wanted, add \$1.00, List, each.

Painted Cast Iron Tanks can be furnished if desired, without extra charge. Lead-lined Tanks can be furnished to order. Prices on application.

Unless otherwise ordered, Range with Enameled Interior, 24 inch Seats and Outlet on Right end, as shown, will be sent.

If with Ventilating Extension for 14 inch Pipe, add to Lists: Painted, \$6.00; Enameled, \$8.00.



SOLID PORCELAIN URINAL

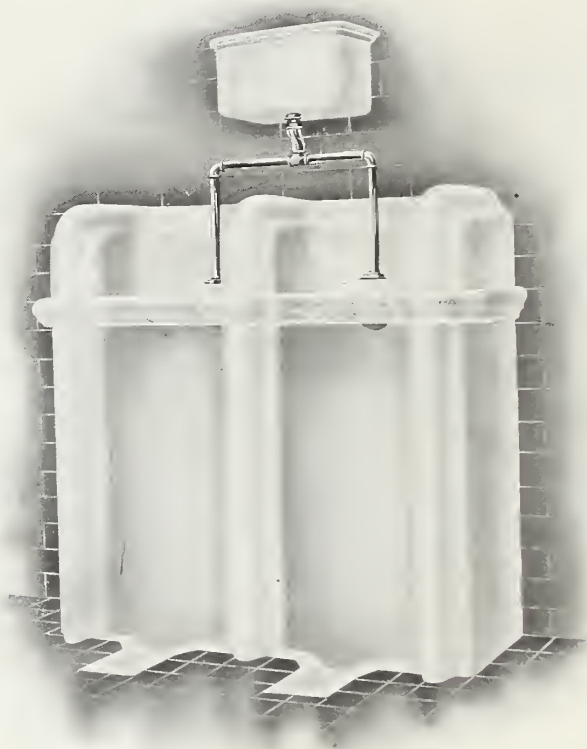


FIG. H-1223

Solid Porcelain Urinals, High Tops, Porcelain Floor Slabs.

DIMENSIONS

Height from Floor to Top, over all, 4 feet 8 inches.  
At Base, from Front to Rear, 19 inches.  
At Top, from Front to Rear, 12 inches.

Measurements are subject to slight variations.

	"A"	"B"	"A"	"B"
List, one Urinal only, with Top, Front Piece and Floor Slab as shown.....	\$100.00	70.00	-----	-----
List, two Urinals only, with Tops, Front Pieces and Floor Slabs, as shown.....	-----	-----	175.00	122.50
List, for each additional Urinal, with Top, Front Piece and Floor-Slab, as shown.....	-----	-----	75.00	52.50
List, each, N. P. Flush Connection and Spreader.....	10.00		10.00	
List, each, N. P. Strainer and Floor Flange.....	4.00		4.00	

## PORCELAIN ENAMELED PUBLIC URINAL

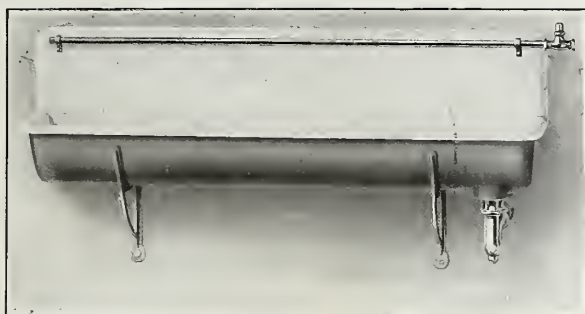


FIG. H-1224

Roll-Rim Public Urinal with Back on Brackets, with Brass Beehive Strainer, Perforated Flush Pipe (Brass on Enameled and Galvanized Iron on Painted Urinals), Loose Key Stop and Nickel-Plated Vented "P" Trap.

Length of Urinal, feet.	Painted, with Galvanized Washdown Pipe.	Enameled, with Brass Washdown Pipe.	Painted, without Trap, Washdown Pipe and Stop.	Enameled without Trap, Washdown Pipe and Stop.
2	\$17.25	\$21.25	\$8.00	\$10.50
2½	18.25	23.50	8.50	12.00
3	19.50	25.75	9.50	13.50
3½	21.00	28.00	10.50	15.00
4	22.25	30.25	11.50	16.50
5	25.00	36.25	13.50	21.00
6	28.25	42.75	16.00	26.00
7	31.50	49.25	18.50	31.00
8	34.75	55.75	21.00	36.00
9	38.00	62.25	23.50	41.00
10	41.25	68.75	26.00	46.00
12	47.75	81.75	31.00	56.00

If without Trap, deduct \$5.75 List.

Urinals over 5 feet in length are made in two or more pieces.

Can be furnished with Outlet on Left End, but will be sent as shown, unless otherwise ordered.

Waste Coupling for Lead Pipe is provided when Urinal is furnished without Trap. Special Length Urinals can be furnished. Prices on application.

# SLATE AND MARBLE URINAL STALLS

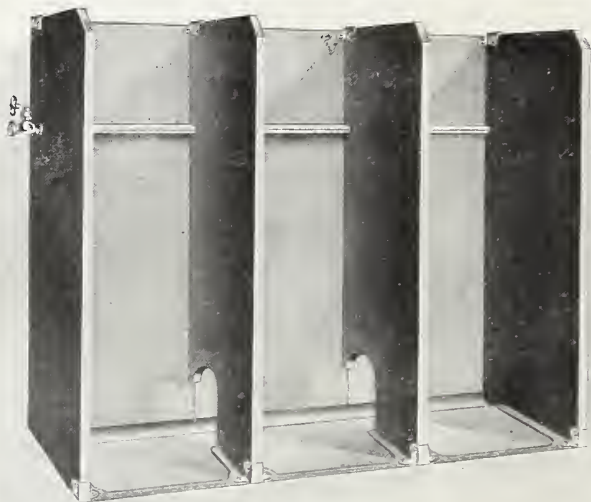


FIG. H-1225

Includes Three Section Slate Urinal Stall, with 1 inch Slate Partitions and Rabbeted Back, 2 inch Countersunk Base, Polished Brass Clamps and Bolts, Polished Brass Perforated Washdown Pipe with Loose Key Stop, and Gutter with Straight Outlet Connection.

## DIMENSIONS

Height, 5 or 5½ feet. Width from Center to Center of Partitions, 2 feet. Depth, 20 inches.

## PRICES

Height, feet	5	5½
Three Stall Slate Urinal, complete as described	\$88.00	93.00
For each additional Stall (continuous), add	27.00	28.75
If only two Stalls are required, deduct for one Stall (from three Stall list)	27.00	28.75
One Single Stall, as above described	37.00	39.25

Can be furnished any special size to order on short notice.

## ITALIAN MARBLE URINAL STALLS

Three Stall Italian Marble Urinal, with ¾ inch Partitions polished on both Sides, ⅞ inch Rabbeted Back polished on inside, and 2 inch Countersunk Base, fitted in same manner as described above, 24 inch Centers and 20 inches deep.

## PRICES

Height, feet	5	5½
Three Stall Urinal	\$135.00	145.00
For each additional Stall (continuous), add	36.00	38.00
If only two Stalls are required, deduct for one Stall (from three Stall list)	36.00	38.00
One Single Stall, as above described	52.00	56.00

Will be sent with Outlet and Supply on Left Hand End, as shown, unless otherwise ordered. Can also be furnished with Outlet in Center or on Right Hand End, or with Bent Outlet. All parts are carefully fitted and adjusted in our factory before shipment.

NOTE.—When ordering, be particular to give location of Outlet and Supply; whether Right or Left Hand End, or with Outlet in Center.

## SLATE URINAL STALL

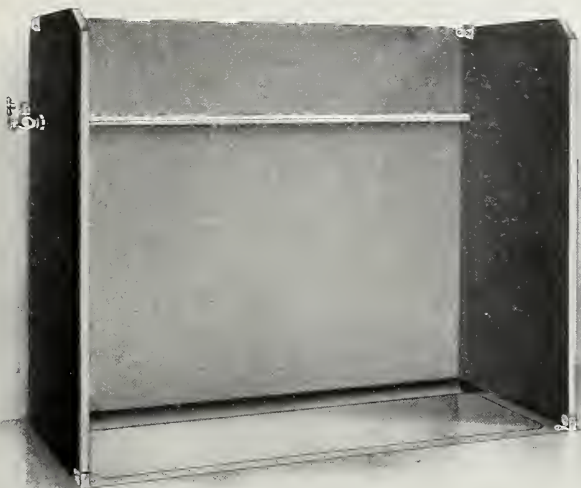


FIG. H-1226

Represents a Long Single Urinal Stall (without center partitions), 1 inch Slate Ends and Backs with Rabbed Joints, 2 inch Countersunk Base, Polished Brass Wing and Bolts, Polished Brass  $\frac{3}{4}$  inch Laving Pipe with Loose Key Stop, Slate Gutter with Straight Outlet Connection.

## DIMENSIONS

Height, 5 or  $5\frac{1}{2}$  feet. Depth, 20 inches.

Height, feet.....	5	$5\frac{1}{2}$
3 feet long over Stall, 20 inches deep.....	\$41.00	44.00
$3\frac{1}{2}$ feet long over Stall, 20 inches deep.....	45.00	48.00
4 feet long over Stall, 20 inches deep.....	49.00	56.00
$4\frac{1}{2}$ feet long over Stall, 20 inches deep.....	53.00	61.00
5 feet long over Stall, 20 inches deep.....	57.00	65.00
$5\frac{1}{2}$ feet long over Stall, 20 inches deep.....	61.00	69.00
6 feet long over Stall, 20 inches deep.....	65.00	73.00
$6\frac{1}{2}$ feet long over Stall, 20 inches deep.....	69.00	77.00
7 feet long over Stall, 20 inches deep.....	73.00	81.00
$7\frac{1}{2}$ feet long over Stall, 20 inches deep.....	77.00	85.00
8 feet long over Stall, 20 inches deep.....	81.00	89.00
$8\frac{1}{2}$ feet long over Stall, 20 inches deep.....	85.00	94.00
9 feet long over Stall, 20 inches deep.....	89.00	98.00
$9\frac{1}{2}$ feet long over Stall, 20 inches deep.....	93.00	102.00
10 feet long over Stall, 20 inches deep.....	97.00	-----

Can be made in any length desired. If desired this Stall may be fitted with Automatic Tank. Prices upon application.

This Urinal Stall is adapted for use in buildings of all kinds where Individual Stalls are not desired. It is guaranteed to be perfectly clean and sanitary, as the Floor is countersunk and sloped toward the gutter. The Back and Gutter is constantly being wet by an unlimited supply of water which can be easily regulated by the Loose Key Stop shown in cut.

PORCELAIN ENAMELED URINALS

FLAT-BACK-LIPPED



FIG. H-1227

Porcelain Enameled Flat Backed Lipped Urinals, with Inlet and Outlet Couplings, Size, 15 inches high, 13 inches wide.

Enameled all over, as described, each	\$12.00
Enameled Inside, as described, each	10.00

Can be furnished with Slip Joint Inlet Connection, if desired, at same price.

CORNER-LIPPED

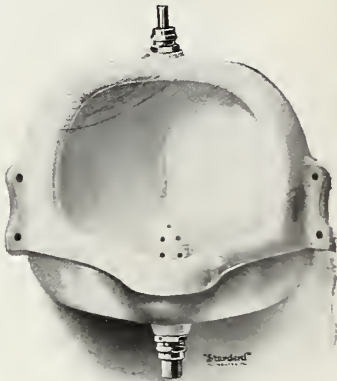


FIG. H-1228

Porcelain Enameled Corner Lipped Urinals, with Inlet and Outlet Couplings, Size, 15 inches high, with Sides, including Lugs, extending 13½ inches along Wall.

Enameled all over, as described, each	\$12.00
Enameled Inside, as described, each	10.00

Can be furnished with Slip Joint Inlet Connection, if desired, at same price.

IRON CORNER URINAL



FIG. H-1229

Number	1	2	3
Length of sides, in.	7	9	12
Painted, each	.90	1.15	1.45
Enameled, each	\$1.75	2.25	2.75

Can be furnished without recess in corner at same price.

IRON FLAT-BACK URINAL



FIG. H-1230

Number	1	2
Width of Back, inches	12	15
Painted, each	\$1.15	1.50
Enameled, each	2.50	3.00



"RICHFIELD"

## SYPHON JET COMBINATION

FIG. H-1231

Large Embossed Design Vitreous Syphon Jet Bowl, large Embossed Design Vitreous China Tank,  $\frac{3}{8}$  inch I. P. Size Supply, Heavy N. P. Post Hinge, Full Saddle Quartered Oak Seat, with Brass Floor Flange, Bolts and Gasket.

---

Combination, complete as described.....\$60.00  
Plain Bowl, deduct \$1.00

---

Roughing-in Measurements —  
Wall to Center of Waste Outlet, 13 inches.

FIG. H-1231

## SYPHONIC WASHDOWN COMBINATION

FIG. H-1232

Large, Plain, Vitreous China Washdown Syphonic Action Bowl, Plain Pattern Vitreous China Tank, Heavy N. P. Post Hinge, Full Saddle Quartered Oak Seat, with Brass Floor Flange, Bolts and Gasket.

---

Combination, complete as described.....\$45.00  
Embossed Bowl, add \$1.00

---

Roughing-in Measurements —  
Wall to Center of Waste Outlet, 15 inches.

"DELAWARE"



FIG. H-1232

# SYPHON JET COMBINATION

"NATURO"

NO. 2



FIG. H-1233

"Naturo" Low Tank Syphon Jet Closet with Piano Polished Quartered Oak Round Corner Tank, Heavy Copper Lining, Quartered Oak Seat and Cover, Vitreous China Bowl, Nickel-plated Flush Pipes and Compression Stop on Supply.

---

As described.....	\$40.00
Add for genuine Mahogany Woodwork.....	\$5.00
Can be furnished in any desired Woodwork or Finish.	

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## U. T. K. SYPHON JET COMBINATION

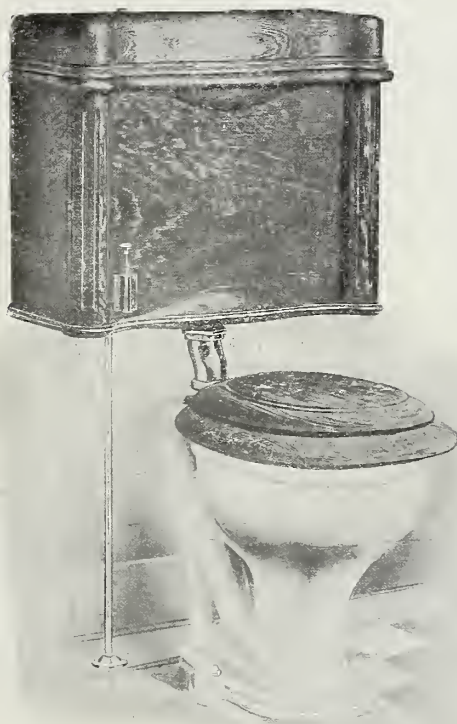


FIG. H-1234

Large Vitreous China Syphon Jet Bowl, large Colonial Pattern Column Box Cover Tank,  $\frac{3}{8}$  inch Iron Pipe Size Supply Pipe, Heavy Offset Hinge,  $1\frac{1}{2}$  inch Full Saddle Seat, Panel Cover, Nickel-plated Brass Closet Screws and Nickel-plated Washers, Quartered Oak Finish.

---

Combination complete as described .....	\$45.00
Embossed Bowl, add .....	\$1.00
Brass Floor Flange, Bolts and Gasket, add .....	.50

---

Can be furnished in any desired Woodwork or Finish.

Roughing-in Measurements—Wall to Center of Waste Outlet,  $14\frac{1}{4}$  inches.

## SYPHON JET COMBINATION

"TRENTON"

No. 11



Knot-Van Arman Mfg. Co.

FIG. H-1235

Large Vitreous China Syphon Jet Bowl, Fancy Column Tank, Pearl Top Push Button, Nickel-plated Tank Brackets, Heavy Nickel-plated Post Hinge, Saddle Seat, Semi-Panel Cover,  $\frac{3}{8}$  inch Nickel-plated Supply Pipe, Nickel-plated Closet Screws and Washers, Natural, Golden or Antique Oak Finish.

Combination complete as described .....	\$40.00
Quartered Oak or Cherry Finish, add .....	\$2.00
Embossed Bowl, add .....	1.00
Brass Floor Flange, Bolts and Gasket, add .....	.50

Can be furnished in any desired Woodwork or Finish.

Roughing-in Measurements—Wall to Center of Waste Outlet, 13 inches.

## SYPHON JET COMBINATION

"TRENTON"

No. 10



FIG. H-1236

Vitreous China Syphon Jet Bowl, Large Solid Square Tank, Top Moulding and Pearl Top Push Button, Heavy Nickel-plated Post Hinge Seat, Nickel-plated Closet Screws and Washers, Natural, Golden or Antique Oak Finish.

Combination complete as described .....	\$38.00
Quartered Oak or Cherry Finish, add .....	\$2.00
Embossed Bowl, add .....	1.00
Brass Floor Flange, Bolts and Gasket, add .....	.50

Can be furnished in any desired Woodwork or Finish.

Roughing-in Measurements—Wall to Center of Waste Outlet, 13 inches.



## SYPHONIC WASHDOWN COMBINATION

"ONEIDA"

NO. 110



FIG. H-1237

Vitreous China Syphon Action Washdown "Oneida" Bowl, Large, Solid, Square Tank, with Moulding and Pearl Top Push Button, Heavy Nickel-plated Post, Hinge Seat, Nickel-plated Closet Screws and Washers, Natural, Golden or Antique Oak Finish.

Combination complete as described .....	\$28.00
Quartered Oak or Cherry Finish, add.....	\$2.00
Embossed Bowl, add.....	1.00

Roughing-in Measurements—Wall to Center of Waste Outlet,  $14\frac{1}{4}$  to  $15\frac{3}{4}$  inches.

## SYPHONIC WASHDOWN COMBINATION

"ONEIDA"

No. 100



FIG. H-1238

Vitreous China Syphonic Action "Oneida" Bowl, with Solid Square Tank, same as shown with Mohawk No. 100 Combination, Fig. H-1239, Heavy Nickel-plated Post Hinge Seat, Nickel-plated Closet Screws and Washers, Natural, Golden or Antique Oak Finish.

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Combination complete as described .....	\$27.50
Quartered Oak, add.....	\$2.00
Embossed Bowl, add.....	1.00

---



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Roughing-in Measurements—Wall to Center of Waste Outlet, 13½ to 15 inches.

## SYPHONIC WASHDOWN COMBINATION

"MOHAWK"

No. 100



FIG. H-1239

Shown with Glass Front to illustrate the Rubber Float Flush Valve and Compound Lever Ball Cock.

Vitreous China Washdown Syphonic Action Bowl, Solid Square Oak Tank, with Gold Medal or Rubber Float Flush Valve and China Push Button, Heavy Nickel-plated Post Hinge Seat, Nickel-plated Closet Screws and Washers, Natural, Golden or Antique Oak Finish.

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Combination complete as described.....	\$27.50
Quartered Oak, add.....	\$2.00
Embossed Bowl, add.....	1.00

---



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Roughing-in Measurements—Wall to Center of Waste Outlet, 13½ to 15 inches.

## SYPHONIC WASHDOWN COMBINATION

"MOHAWK"

No. 15



FIG. H-1240

Vitreous China Washdown Syphonic Action Bowl, Solid Square Oak Tank, with Nickel-plated Tank Brackets, Heavy Nickel-plated Post Hinge Seat, Nickel-plated Closet Screws and Washers, Natural, Golden or Antique Oak Finish.

---

Combination complete as described .....	\$27.50
Quartered Oak, add .....	\$2.00
Embossed Bowl, add .....	1.00

---

Roughing-in Measurements—Wall to Center of Waste Outlet,  $12\frac{1}{2}$  to  $14\frac{3}{4}$  inches.

## SYPHON JET COMBINATION

"JUNO"

No. 4



FIG. H-1241

Vitreous China Syphon Jet Bowl, Large Solid Oak Eight Gallon Tank, Round Cornered with Top Moulding, Nickel-plated Straight Flush and Supply Pipes, Nickel-plated Adjustable Pipe Holder, Heavy Nickel-plated Post Hinge Seat, Nickel-plated Spud, Nut and Flange, Nickel-plated Closet Screws and Washers, Natural, Golden or Antique Oak Finish.

Combination complete as described .....	\$40.00
Quartered Oak or Cherry Finish, add .....	\$2.00
Embossed Bowl, add .....	1.00
Nickel-plated Flexible Connections for Flush, add .....	1.00

Roughing-in Measurements—Wall to Center of Waste Outlet, 11 $\frac{1}{4}$  inches.



## SYPHONIC WASHDOWN COMBINATION

"HARUM"

No. 2

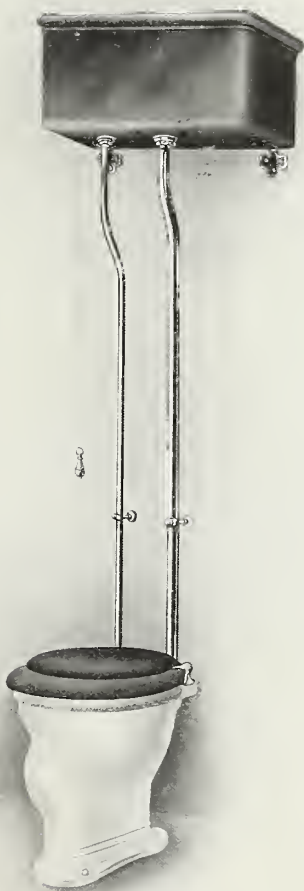


FIG. H-1242

Vitreous China Washdown Syphonic Action Bowl, large Solid Oak 6 gallon Tank, Round Cornered with Top Moulding, Chain and Pull, Nickel-plated Offset Flush and Supply Pipes, Nickel-plated Adjustable Pipe Holders, Heavy Nickel-plated Post Hinge Seat, Nickel-plated Adjustable Slip Joint Elbow, Nickel-plated Closet Screws and Washers, Natural, Golden or Antique Oak Finish.

Combination complete as described .....	\$28.50
Washdown Bowl with Jet, add .....	\$2.00

Roughing-in Measurements—Wall to center of Waste Outlet, 10 to 10½ inches.

## FRONT WASHOUT COMBINATION

" ESSEX "

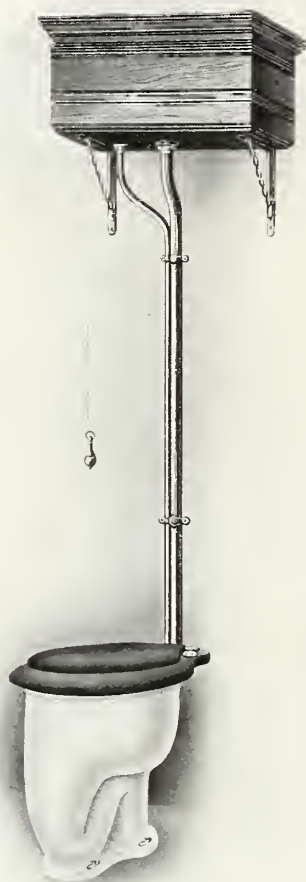


FIG. H-1243

Vitreous China No. 3 Front Outlet Washout Bowl, Solid Oak 6 Gallon Square Beaded and Moulded Tank, with Chain and Pull, Nickel-plated Offset Flush and Supply Pipes, Nickel-plated Pipe Straps, Nickel-plated Adjustable Slip Joint Elbow, 1¼ inch Wood Strip Seat, Natural, Golden or Antique Oak Finish, Nickel-plated Closet Screws and Washers.

Combination complete as described .....	\$26.00
Embossed Bowl, add .....	\$1.00

Roughing-in Measurements—Wall to Center of Waste Outlet, 10½ to 12¾ inches.

## SYPHON JET CLOSET WITH VIMOMETER



FIG. H-1244

Patented December 30, 1902

Porcelain Enameled "Delecto" Siphon Jet Closet, with  $1\frac{1}{2}$  inch Brass Connection, Plain Oval Seat and Paneled Cover, Nickel-plated Cast Brass Hinges, Nickel-plated Brass Vimometer, Floor Flange, Rubber Gasket, Screws, Bolts and Washers complete.

---

As described, with Enameled In and Out Bowl, and Natural, Antique or Golden Quartered Oak Seat and Cover.....	\$35.00
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Roughing-in Measurements—Wall to Center of Waste Outlet, 13 inches.

## SYPHON JET COMBINATION



FIG. H-1245

Porcelain Enameled "Delecto" Syphon Jet Closet, with Full Saddle Seat and Panel Cover, Quartered Oak or Cherry Finish, Enameled In and Out Tank. Nickel-plated Brass Supply Pipe, with Compression Stop, Flush Connection. Spun Cups, Brass Floor Flange, Rubber Gasket, Screws, Bolts and Washers complete.

As described .....

\$40.00

Roughing-in Measurements—Wall to Center of Waste Outlet, 13 inches.

## SYPHON JET COMBINATION



FIG. H-1246

Porcelain Enameled "Delecto" Syphon Jet Closet, with Full Saddle Seat and Panel Cover, Quartered Oak or Cherry Finish, Enameled In and Out Tank, with Curved Front and Flat Top, Nickel-plated Brass Supply Pipe with Compression Stop, Flush Connection, Spun Cups, Brass Floor Flange, Rubber Gasket, Screws, Bolts and Washers.

Complete as described ..... \$40.00

Roughing-in Measurements—Wall to Center of Waste Outlet, 12½ inches.



# SYPHON JET COMBINATION



FIG. H-1247

Porcelain Enameled "Delecto" Syphon Jet Closet, with 2 inch Brass Flush Connection and Improved Roll Top Flushing Rim.  $1\frac{1}{4}$  inch Plain Oval Seat and Cover attached with Nickel-plated Cast Brass Offset Hinges, Round Corner Copper-lined Tank with Box Top and Push Button. Nickel-plated Brass Supply Pipe. Flush Connection, Spun Cups, Brass Floor Flange, Rubber Gasket, Screws, Bolts and Washers complete.

As described, with Enameled In and Out Bowl, and Natural, Antique or Golden Oak Tank, Seat and Cover ..... \$31.50

Add to list for Special Woods and Finishes as follows :

Quartered Oak.....	\$1.75	Ox Blood.....	\$4.00
Cherry (genuine) .....	2.50	Bird's-eye Maple .....	5.50
Walnut.....	3.25	White Enamel.....	6.50
High, Dutch Oak.....	4.00	Mahogany (genuine) .....	8.00
English Oak.....	4.00		

Roughing-in Measurements—Wall to Center of Waste Outlet,  $12\frac{1}{2}$  inches.

## SYPHON WASHDOWN COMBINATION

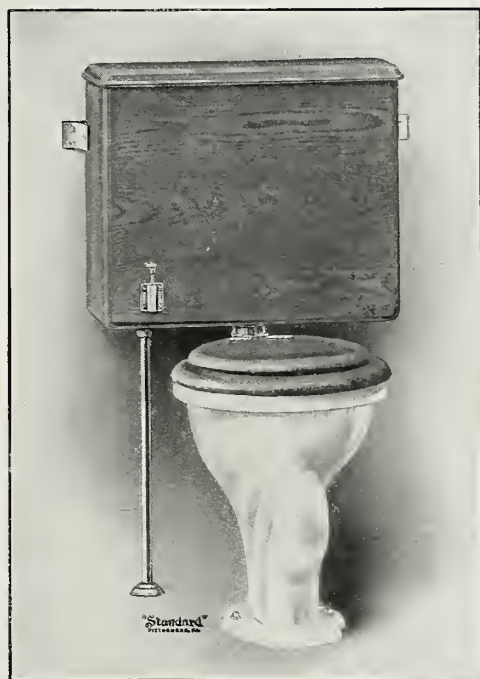


FIG. H-1248

Porcelain Enameled "Arno" Syphon Washdown Closet, with 2 inch Nickel-plated Coupling, Oval Seat and Cover, with Square Back and Back Strip to attach to Bowl, Round Corner Copper-lined Tank with Solid Top, Push Button, Nickel-plated Brass Supply Pipe, Flush Connection, Spun Cup, Brass Floor Flange, Rubber Gasket, Screws, Bolts and Washers complete.

As described, with Enameled In and Out Bowl, and Natural, Antique or Golden Oak Seat and Cover ----- \$25.50

Add to list for Special Woods and Finishes as follows:

Quartered Oak -----	\$1.75	Ox Blood -----	\$4.00
Cherry (genuine) -----	2.50	Bird's-eye Maple -----	5.50
Walnut -----	3.25	White Enamel -----	6.50
High Dutch Oak -----	4.00	Mahogany (genuine) -----	8.00
English Oak -----	4.00		

Roughing-in Measurements—Wall to Center of Waste Outlet,  $14\frac{1}{4}$  to  $15\frac{1}{4}$  inches.

## WASHOUT COMBINATION



FIG. H-1249

Porcelain Enameled "Paragon" Washout Closet, with 2 inch Brass Flush Connection and Improved Roll Top Flushing Rim,  $1\frac{1}{4}$  inch Plain Oval Seat and Cover attached with Nickel-plated Cast Brass Hinges, Round Corner Copper-lined Tank with Pull Action, Nickel-plated Brass Supply Pipe, Flush Connection, Spun Cup, Screws, Bolts and Washers complete.

As described, with Enameled In and Out Bowl, and Natural, Antique or Golden Oak Tank, Seat and Cover .....		\$24.00	
Add to list for Special Woods and Finishes, as follows:			
Quartered Oak .....	\$1.75	Ox Blood .....	\$4.00
Cherry (genuine) .....	2.50	Bird's-eye Maple .....	5.50
Walnut .....	3.25	White Enamel .....	6.50
High Dutch Oak .....	4.00	Mahogany (genuine) .....	8.00
English Oak .....	4.00		

Roughing-in Measurements—Wall to Center of Waste Outlet,  $13\frac{1}{4}$  to  $14\frac{1}{4}$  inches.

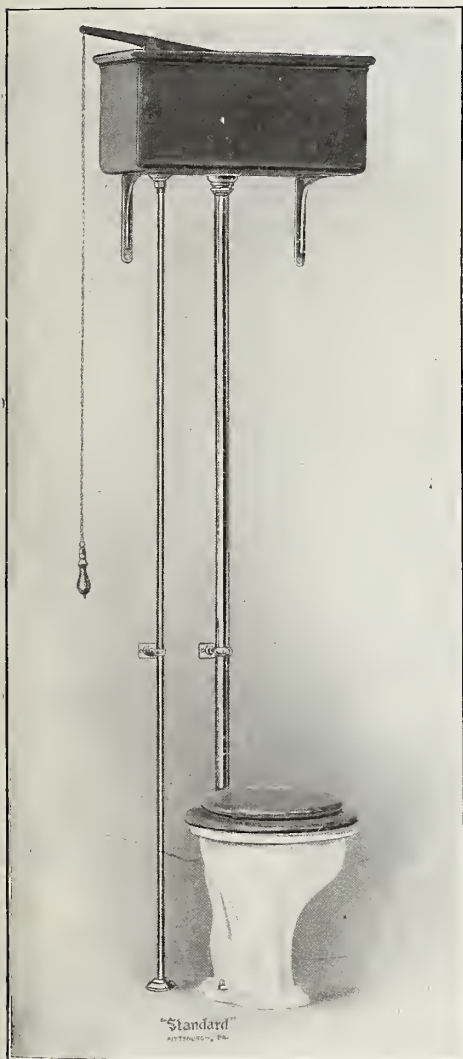


FIG. H-1250

## SYPHON JET COMBINATION

Porcelain Enameled "Delecto" Syphon Jet Closet, with  $1\frac{1}{2}$  inch Brass Flush Connection and Improved Roll Top Flushing Rim,  $1\frac{1}{4}$  inch Plain Oval Seat and Cover attached, with Nickel-plated Cast Brass Offset Hinges, Round Corner Copper-lined Syphon Tank, with Chain and Pull and Nickel-plated Brackets, Nickel-plated Flush and Supply Pipes with Holders, Brass Floor Flange, Rubber Gasket, Spun Cups, Bolts, Screws and Washers complete.

As described, with Enameled In and Out Bowl, and Natural, Antique or Golden Oak Tank, Seat and Cover ..... \$35.00

Add to list for Special Woods and Finishes as follows:

Quartered Oak .....	\$1.75	Ox Blood .....	\$4.00
Cherry (genuine) .....	2.50	Bird's-eye Maple .....	5.50
Walnut .....	3.25	White Enamel .....	6.50
High Dutch Oak .....	4.00	Mahogany (genuine) .....	8.00
English Oak .....	4.00		

Roughing-in Measurements—Wall to Centre of Waste Outlet,  $10\frac{1}{2}$  inches.

## SYPHON WASHDOWN COMBINATION

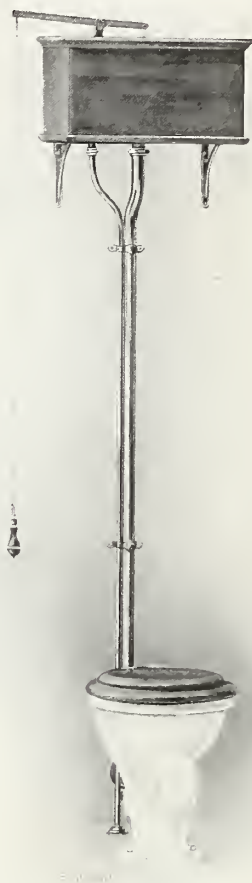


FIG. H-1251

Porcelain Enameled "Arno" Siphon Washdown Closet, with  $1\frac{1}{4}$  inch Coupling, and Nickel-plated Vent Connection to Wall,  $1\frac{1}{4}$  inch Oval Seat and Cover with Square Back and Back Strip attached to Bowl, Copper-lined Tank with Chain and Pull and Nickel-plated Brackets, Nickel-plated Flush and Supply Pipes, with Holders, Spun Cup, Bolts, Screws and Washers complete.

NOTE.—Furnished without Vent when desired.

As described, with Enameled In and Out Bowl, and Natural, Antique or Golden Oak Tank, Seat and Cover.....\$30.50

Add to list for Special Woods and Finishes as follows:

Quartered Oak.....	\$1.75	English Oak.....	\$4.00
Cherry (genuine).....	2.50	Ox Blood.....	4.00
Walnut.....	3.25	Bird's Eye Maple.....	5.50
High Dutch Oak.....	4.00	White Enamel.....	6.50
Mahogany (genuine).....	\$8.00		

Roughing-in Measurements—Wall to Center of Waste Outlet,  $10\frac{1}{2}$  inches.



## WASHOUT COMBINATION

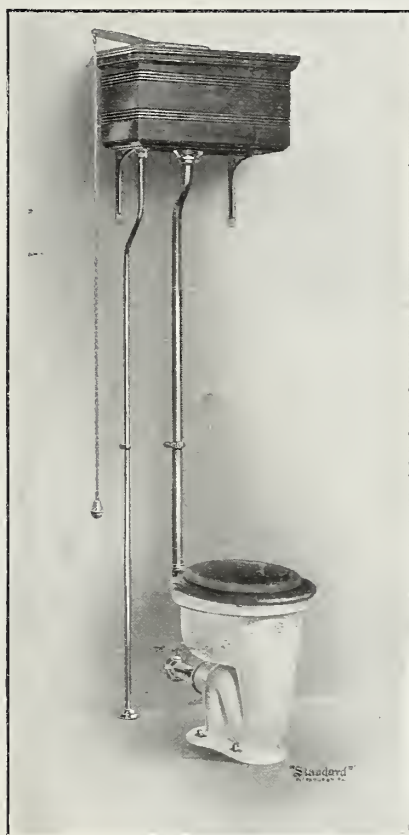


FIG. H-1252

Porcelain Enameled "Paragon" Washout Closet with  $1\frac{1}{4}$  inch Brass Flush Connection and Improved Roll Top Flushing Rim,  $1\frac{1}{4}$  inch Plain Oval Seat and Cover attached with Nickel-plated Cast Brass Straight Post Hinges, Square Corner Beaded and Moulded Copper-lined Syphon Tank with Chain, Pull and Nickel-plated Brackets, Nickel-plated Flush and Supply Pipes with Holders, Spun Cups. Bolts, Screws and Washers complete.

As described, with Enameled In and Out Bowl, and Natural, Antique or Golden Oak Tank, Seat and Cover, with 17 x 8 x 10 inch Tank .....	\$24.50
As described, with Enameled In and out Bowl, and Natural Antique or Golden Oak Tank, Seat and Cover, with 18 x 10 x 10 inch Tank .....	25.00
As described, with Enameled In and Out Bowl, and Natural, Antique or Golden Oak Tank, Seat and Cover, with 22 x 11 x 10 inch Tank .....	26.00

Add to list for Special Woods as follows :

Size of Tank .....	17 x 8 x 10	18 x 10 x 10	22 x 11 x 10
Quartered Oak .....	\$1.50	\$1.75	\$2.00
Cherry (genuine) .....	2.25	2.50	2.75

Roughing-in Measurements—Wall to Center of Waste Outlet,  $10\frac{1}{2}$  inches.

## KELLY SELF-ACTING AFTER-FLUSH WATER CLOSET

SLOP HOPPER, URINAL AND WATER CLOSET COMBINED

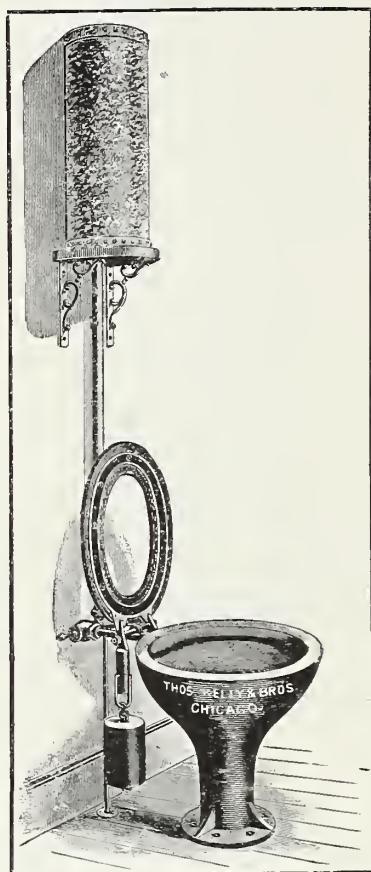


FIG. H-1253

The Seat is hinged to the Flush-pipe Connection. The Hopper is a Fan-wash. Iron Enameled; all other parts are Brightly Galvanized Iron or of Brass. The Valve, in our opinion, will last 25 years without repairs. The end of Valve Spindle has a Brass wheel bearing at point where the Seat Lever operates the Valve.

The Seat Rings are improved and strengthened and made of Malleable Iron.

As shown in cut, with Flush Pipe ..... \$16.00

# “KELLY” FROST PROOF CLOSETS



FIG. H-1254

The Valve of this Closet is placed below freezing point. When the seat is occupied the Tank fills, and discharges into Closet when released, the balance of water in Pipe above the Valve then drains into the Trap through the Tube as shown, leaving nothing to freeze above the Valve.

---

As shown in Cut, except Pipes  
and Trap..... \$16.00

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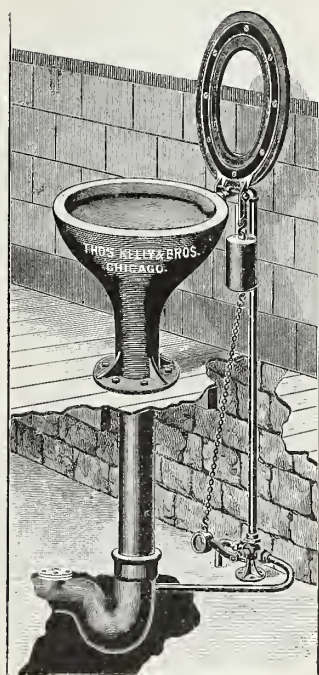


FIG. H-1255

This Closet requires no Tank, connection being made direct to the Water Pipe. The water runs while the seat is occupied and shuts off and empties the Pipe above the Valve when the seat is released.

---

As shown in Cut, except Pipes  
and Trap..... \$12.00

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## "ZERO" FROST PROOF CLOSET

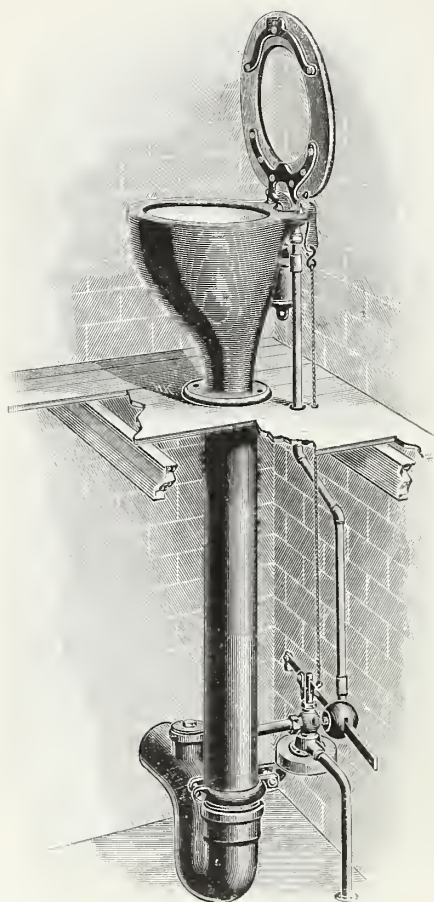


FIG. H-1256

This Frost-proof Closet is Self-acting, or Automatic, and cannot be used without Flushing. It consists of a Zero Swing Seat Hopper, Zero Valve, and Valve Hanger. The Trap and Valve are placed below frost line, in a Vault prepared for that purpose, which can be either bricked or boarded up. To insure against Frost there should be a Sub-floor at least a foot below the surface of the ground and the space filled with either saw dust or straw. A Trap Door in the floor will give easy access to the Valve in case repairs should be necessary. We recommend this construction on all Closets requiring Vaults.

The Water flushes while the Closet is in use; when the Seat is not occupied the Valve shuts off, and allows all of the Water in the Pipes to waste out. As the Waste is the important feature in the Frost-proof Closet, it should always have a free flow to the Sewer.

Price, less Pipes and Traps :

Fan Wash Hopper with $\frac{3}{4}$ inch Valve.....	\$12.00
Flushing Rim Hopper with one inch Valve .....	15.00





# ENAMELED IRON HOPPERS

LONG OVAL  
FLUSHING RIM  
WITH SWING  
SEAT AND  
VALVE

White Enamel Inside. Painted Outside.  
Self Raising Seat.

Brass Single or Double Acting Valve,  
as ordered.

Each ----- \$11.00

FIG. H-1257

LONG ROUND FLUSHING RIM—(Not Illustrated).

Same as Fig. H-1257, but with Round Hopper—Each ----- \$11.00

## SHORT ROUND FLUSHING RIM HOP- PER ON "S" TRAP, WITH HAND HOLE WITH SINGLE OR DOUBLE ACTING VALVES

White Enamel Inside. Painted Outside.  
Self Raising Seat.

Brass Single or Double Acting Valve, as  
ordered.

Hopper Painted, on Painted Trap, each -----	\$11.00
Hopper Enameled inside only, Painted Trap, each -----	13.25
Hopper Enameled inside only, Enameled Trap, each -----	14.00
Hopper and Trap Enameled inside and outside, each -----	16.50
With Oval Hopper, add -----	.50
For Square Seat, add -----	.50

Can be furnished on any style Trap de-  
sired.



FIG. H-1258



ENAMELED IRON HOPPERS

LONG OVAL ROLL-RIM FLUSHING RIM

White Enamel Inside.  
White Enamel Roll-Rim.  
Painted Outside.  
  
Brass Spud and Goose Neck.

Each ----- \$6.50

Long Round, R. R.  
Flush Rim Hopper,  
(not illustrated), each \$6.00



FIG. H-1259

LONG OVAL FLUSHING RIM—WITH WOOD SEAT



FIG. H-1260

DESCRIPTION

White Enamel Inside. Painted Red Outside. Hard Wood Seat.  
Brass Spud and Goose Neck.

Each ----- \$7.00  
Long Round F. R. Hopper (not illustrated), each ----- \$6.50

## ENAMELED IRON HOPPERS

LONG OVAL FLUSHING RIM



FIG. H-1261

## DESCRIPTION

White Enamel Inside.      Painted Red Outside.      Brass Spud and Goose Neck.

As described, each	.....	\$5.50
If with Regular Seat Lugs, add to list	.....	.60
Long Round F. R. Hopper (not illustrated), each	.....	\$5.00

## PHILADELPHIA



FIG. H-1262

## DESCRIPTION

White Enamel Inside.      Painted Black Outside.

Painted, each	.....	\$1.75
Enameled Inside, each	.....	2.75
Enameled Inside and Outside, each	.....	4.25

## CLOSET TANKS

No. 350



Wave Pattern, Pilaster Tank, with  $1\frac{1}{2}$  inch Frame Top and Extended Bottom, China Push Button, Nickel-plated  $\frac{3}{8}$  inch Iron Pipe Size Supply Pipe, Nickel-plated Elbow or Offset Connection, 12, 14 or 16 ounce Copper-lined, Natural, Antique or Golden Oak Finish.

As described \$24.00

Furnished also in other woods.

Prices on application.

FIG. H-1263

No. 11C

Low Down Round Cornered Tank, Copper-lined, with China Push Button, Nickel-plated  $\frac{3}{8}$  inch Iron Pipe Size Supply Pipe, Nickel-plated Elbow or Offset Connection, Natural Antique or Golden Oak Finish.

As described \$9.50

If Quartered Oak

Finish, add 1.25



FIG. H-1264

## CLOSET TANKS

No. 16 A



FIG. H-1265

Heavy Swell Front Tank with Bead Moulding and Extended Vented Cover, Copper Lined Nickel-plated  $\frac{3}{8}$  inch Iron Pipe Size Supply Pipe, Nickel-plated Elbow or Offset Connection, Natural, Golden or Antique Oak Finish.

As described .....	\$12.00
If Quartered Oak Finish, add.....	1.25

FIG. H-1265

No. 134 B



FIG. H-1266

Round Cornered Oak Tank with Top Moulding, Copper Lined, with Flush and Bottom or Top Supply Fittings, Natural, Golden or Antique Oak Finish.

Size, inches .....	17 x 8 x 10	18 x 10 x 10	20 x 10 x 10
As described .....	\$6.00	\$6.50	\$7.50
If Quartered Oak Finish, add .....	1.25	1.25	1.50

No. 1170

FIG. H-1267

Beaded Square Cornered Tank, with Moulding, Large Copper Lined, with Flush and Bottom or Top Supply Fitting, Natural, Golden or Antique Oak Finish.

Size, inches .....	17 x 8 x 10
As described .....	\$6.00
Size, inches .....	18 x 10 x 10
As described .....	\$6.50
Size, inches .....	20 x 10 x 10
As described .....	\$7.50

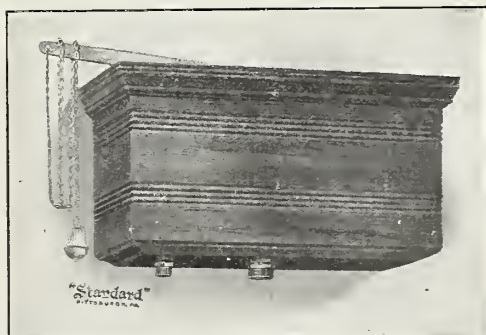


FIG. H-1267

Furnished also in other Woods. Prices on application.



## CLOSET TANKS



FIG. H-1268

FIG. H-1268

Porcelain Enameled Low Closet Tanks.

NOTE.—Furnished with Pull or Push Button on Front of Tank when desired, (specify when ordering).

Enameled all over, with Fittings	----- \$21.00
Enameled all over, without Fittings	----- 13.00
Enameled Inside, with Fittings	----- 18.00
Enameled Inside, without Fittings	----- 10.00

FIG. H-1269

Porcelain Enameled Low Closet Tanks.

Enameled all over, with Fittings	--- \$21.00
Enameled all over, without Fittings	13.00
Enameled Inside, with Fittings	---- 18.00
Enameled Inside, without Fittings	- 10.00

Tank furnished with Nickel-plated Flush Connection and Supply Pipe, less Stop.



FIG. H-1269



## CLOSET TANKS

## HIGH CLOSET TANK



FIG. H-1270

Size 20 x 10 x 10 inches.

Enameled all over, without Fittings .....	\$6.00
Enameled Inside, without Fittings .....	4.00
Painted, without Fittings .....	2.50
If with "Perfection" Brass Fittings, complete, add .....	5.00

## HIGH CLOSET TANK

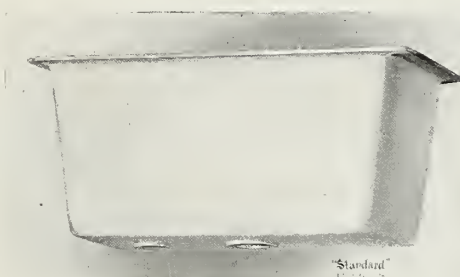


FIG. H-1271

Size No 1, 16 x 7 x 8 inches.

Enameled Inside, without Fittings .....	\$3.00
Painted, without Fittings .....	1.75

Size No. 2, 19½ x 10½ x 9½ inches.

Enameled Inside, without Fittings .....	\$3.75
Painted, without Fittings .....	2.25
If with Fittings, complete (either size), add .....	\$3.50

## CLOSET SEATS

No. 8



FIG. H-1270

Saddle Seat and Panel Cover,  
Nickel-plated Heavy Cast Brass  
Offset Hinges, Select Quartered  
Natural, Golden or Antique  
Oak Finish.

As described ..... \$4.75

FIG. H-1270

No. 4

FIG. H-1271

Oval,  $1\frac{1}{4}$  inch Seat, with  
Cover and Nickel-plated  
Heavy Cast Brass Offset  
Hinges, Natural, Golden or  
Antique Oak Finish.

As described ..... \$2.75

If Quartered Oak Finish,  
add ..... .75



FIG. H-1273

## CLOSET SEATS

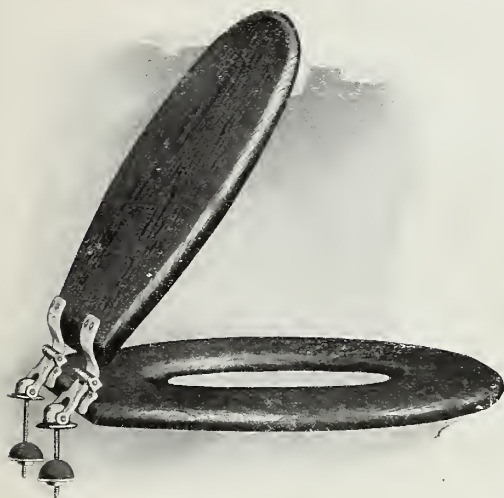


FIG. H-1274

SHOWING NO. 162 SEAT

FIG. H-1274

## LABAK

Square Back,  $1\frac{1}{4}$  inch  
Seat and Cover, Nickel-plated  
Heavy Offset Hinges.

As described ..... \$3.50

This Seat is specially  
adapted for close Roughing-  
in Closet.

FIG. H-1275

$1\frac{1}{4}$  inch Four Piece  
Oak Self Raising Seat  
with Weight, Heavy  
Nickel-plated Cast Brass  
Hinge, Natural, Golden  
or Antique Oak Finish.

Seat only—As de-  
scribed ..... \$5.00  
If Quartered Oak  
Finish, add..... .75



FIG. H-1275

## CLOSET SEATS

NO. 211

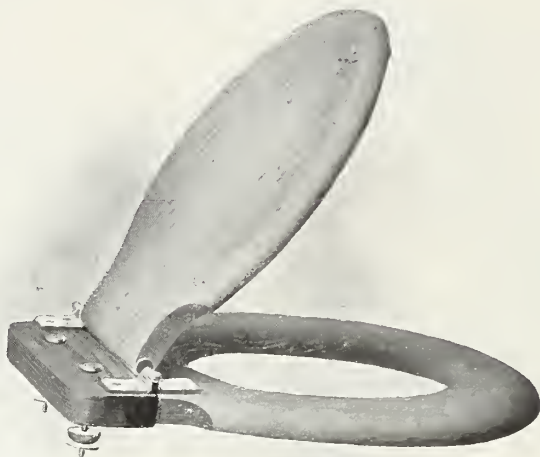


FIG. H-1276

Oval,  $1\frac{1}{4}$  inch Seat, with Cover and Back Strip to attach to Bowl, Nickel-plated Brass Hinge and Bolts.

As described ..... \$2.50

NO. 14



FIG. H-1277

Square Back,  $1\frac{1}{4}$  inch Seat, with Cover and Nickel-plated Brass Hinges, Natural or Golden Oak Finish.

As described ..... \$3.00

NO. 11

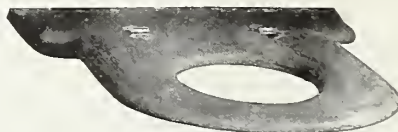


FIG. H-1278

Square Back,  $1\frac{1}{4}$  inch Seat with Back Strip to attach to Wall, without Cover, Natural or Golden Oak Finish.

As described ..... \$2.00

If with Cover, add ..... .50

CLOSET SEATS

NEVER SPLIT  
No. 120



FIG. H-1279

1¼ inch Stock, Nickel-plated Cast Brass Offset Post Hinges, with Bumpers attached, for Low Tank. Finished in Natural, Antique or Golden Oak, Imitation Cherry or Mahogany, Varnish Finish.

Each	\$2.65
If with N. P. Straight Post Hinge instead of Offset (not illustrated)	2.50

NEVER SPLIT  
No. 100



FIG. H-1280

1¼ inch Stock, Nickel-plated Brass Hinges, Wood Strip Back, with Nickel-plated Bolts, Rubber Bumpers attached. Finished in Natural, Antique or Golden Oak, Varnish Finish.

Each	\$2.25
------	--------



## BALL COCKS

## FOSTER NEVER-LEAK

$\frac{1}{2}$  inch Lead or Iron Pipe Connections. Nickel-plated Nuts, Couplings and Tall Pieces, Extra.  
 4 inch Seamless Copper Floats with Rod, 59 cents each.

## "FOSTER" TOP CONNECTION

## "FOSTER" BOTTOM CONNECTION

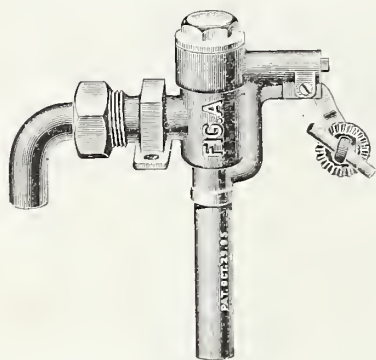


FIG. H-1281

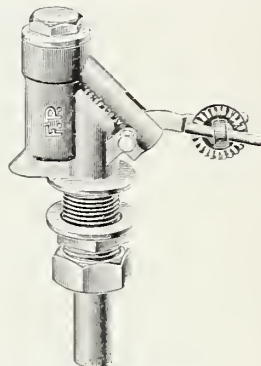


FIG. H-1282

Each .....	\$3.60	Each .....	\$3.75
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## "GOLD-MEDAL" COMPOUND LEVER BOTTOM SUPPLY—FOR HIGH TANK

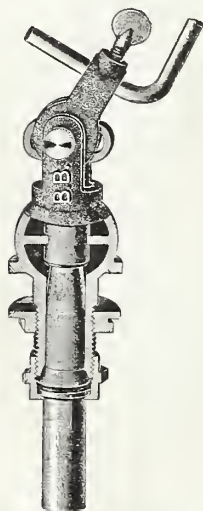
"B. B." HIGH PRESSURE  
BOTTOM SUPPLY

FIG. H-1283

Bottom or Top Supply, each .....	\$2.50
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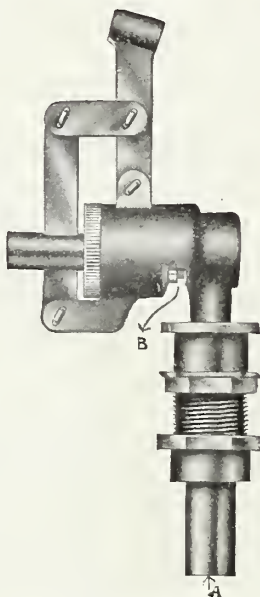


FIG. H-1284

For High Tank, Bottom or Top Supply, each .....	\$2.00
For Low Tanks, with Refilled Top, (not illustrated), each .....	2.50

"SUCCESS"  
FOR HIGH TANK

FIG. H-1285

For High Tanks, each .....	\$2.00
For Low Tanks (not illustrated), each .....	2.50

# FLUSHING VALVES

NEVER-LEAK  
ALL BRASS, SCREWED ENDS FOR IRON PIPE

RUBBER FLOAT  
ONE BALL

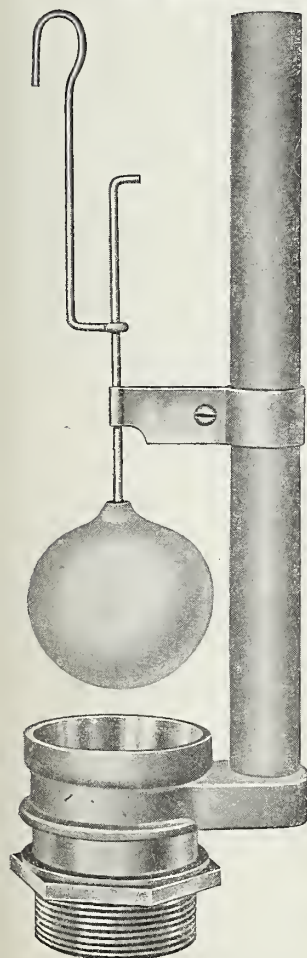


FIG. H-1287

Large Size Float for Low Tanks, each.....\$2.50  
Small Size Float for High Tanks, each.....2.25

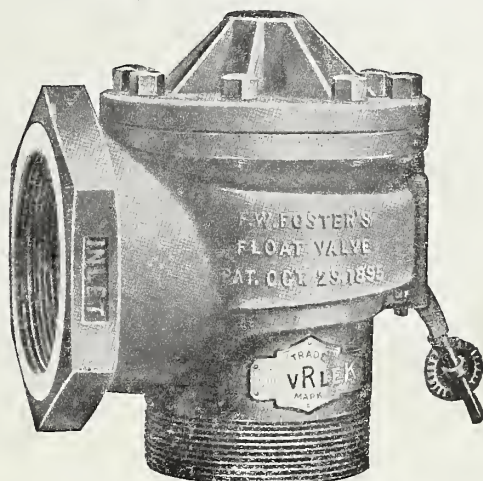


FIG. H-1286

Size, inches.....	$\frac{3}{4}$	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$
Each, including Float.....	\$6.00	8.00	9.00	12.00	20.00	36.00
Size, inches.....	3		4		5	
Each, including Float.....	\$55.00		78.00		108.00	
					150.00	

CONE  
SYPHON  
ALL  
BRASS



FIG. H-1288

CONE  
SYPHON  
GALVANIZED  
OVERFLOW



FIG. H-1289

GALVANIZED  
GOOSE  
NECK



FIG. H-1291

	Size, inches.	Each.
Fig. H-1288—Cone.....	1 $\frac{1}{2}$	\$2.50
Fig. H-1288—Less Cone.....	1 $\frac{1}{2}$	2.25
Fig. H-1289—Cone.....	1 $\frac{1}{2}$	2.00
Fig. H-1289—Less Cone.....	1 $\frac{1}{2}$	1.75
Fig. H-1291.....	1 $\frac{1}{2}$	2.00

# EARTHENWARE CLOSETS

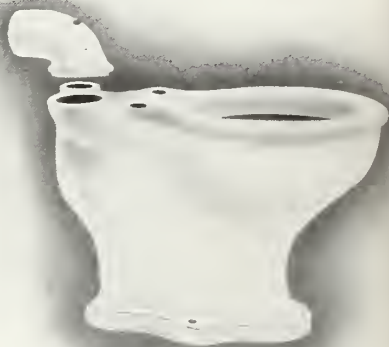
**NO. 2 OVAL PLAIN  
SYPHON JET**



**FIG. H-1292**

Plain, as described, each.....	\$17.00
Embossed, each .....	18.00

**PLAIN SYPHON JET  
WITH PATENTED VERTICAL LOCAL  
VENT AND CROCKERY VENT ARM**



**FIG. H-1293**

As described, each.....	\$19.50
Crockery Vent Arm, each.....	1.25

**SYPHON ACTION WASHDOWN  
PLAIN**



**FIG. H-1294**

Each .....	\$8.50
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**FIG. H-1295**

Each, without Jet.....	\$8.50
Each, with Jet.....	10.00

Fig. H-1295.—Price does not include Spud or Coupling.    Seat attachment extra.  
Made with 1¼ inch Coupling for High Tank or 2 inch Coupling for Low Down Tank.  
In ordering specify whether you desire Closet for High or Low Down Tank.

## EARTHENWARE CLOSETS

PLAIN OVAL WASHOUT—NO VENT  
FRONT OUTLET—SEAT ATTACHMENT  
SIZES NOS. 1, 2 AND 3



FIG. H-1296

FIG. H-1296

No. 1 Oval, Front Outlet, each\_ \$13.25  
No. 2 Oval, Front Outlet, each\_ 10.25  
No. 3 Oval, Front Outlet, each\_ 8.00

PLAIN OVAL WASHOUT—  
NO VENT  
BACK OUTLET—SEAT ATTACH-  
MENT. SIZES NOS. 1, 2  
AND 3



FIG. H-1297

FIG. H-1297

No. 1 Oval, Back Outlet,  
each\_ \$14.00  
No. 2 Oval, Back Outlet,  
each\_ 11.00  
No. 3 Oval, Back Outlet,  
each\_ 8.00

PLAIN OVAL COMBINATION  
HOPPER AND TRAP



FIG. H-1298

FIG. H-1298

Plain Oval Combination Hopper and  
Trap, each\_ \$8.00

EARTHENWARE HOPPERS

PHILADELPHIA



FIG. H-1299

LONG ROUND FLUSHING RIM



FIG. H-1300

Each ..... \$4.50

Each ..... \$5.00

LONG OVAL FLUSHING RIM  
WITH SINGLE BRACKET



FIG. H-1301

Each ..... \$6.50



## EARTHENWARE HOPPERS

### SHORT OVAL FLUSHING RIM



[FIG. H-1302

Short Oval Flushing Rim,  
each ..... \$3.50

FIG. H-1302

### SHORT ROUND FLUSHING RIM



FIG. H-1303

Short Round Flushing  
Rim, each ..... \$2.50

### EARTHENWARE HOPPER TRAP



FIG. H-1303

FIG. H-1304

Earthenware Hopper Traps,  
each ..... \$3.00

Spuds and Couplings always  
extra.

FIG. H-1304

## ENAMELED IRON CLOSETS

**"DELECTO"**

SYPHON JET

**FIG. H-1305**

With 2 inch or 1½ inch Spud.

Enameled in and out, each.....	\$16.00
Enameled Inside only, each.....	14.00

**"EDUX"**

SYPHON WASHDOWN

**FIG. H-1306**

With 2 inch or 1¼ inch Spud.

Enameled in and out, each.....	\$14.00
Enameled Inside only, each.....	12.00

**"ARNO"**

SYPHON WASHDOWN

**FIG. H-1307**

With 2 inch or 1¼ inch Spud.

Enameled in and out, each.....	\$12.00
Enameled Inside only, each.....	10.00
If with Trap Vent, add.....	\$1.00

**"PARAGON"**

WASHOUT

**FIG. H-1308**

With 1¼ inch Flush Spud and Trap Vent with 2 inch Vent Spud.

Enameled in and out, each.....	\$11.00
Enameled Inside only, each.....	9.50
If without Vent, deduct....	\$1.00

## STANDARD EARTHENWARE URINALS

FLAT BACK—PLAIN

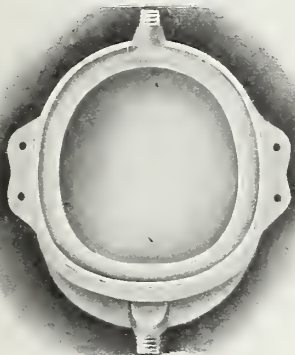


FIG. H-1309

FLAT BACK—LIPPED



FIG. H-1310

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Number.....	1	2	3
Size, inches.....	15x18	13x15	12x14
Fig. H-1309—Each.....	\$8.00	6.00	5.00
Fig. H-1310—Each.....	10.00	8.00	7.00

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CORNER—PLAIN

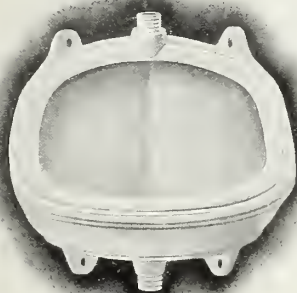


FIG. H-1311

CORNER—LIPPED

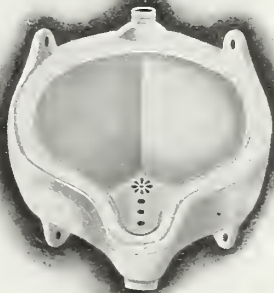


FIG. H-1312

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Number.....	1	2	3
Size, inches.....	13x13	11½x11½	10½x10½
Fig. H-1311—Each.....	\$8.00	6.00	5.00
Fig. H-1312—Each.....	10.00	8.00	7.00

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EARTHENWARE LIPPED URINALS

SYPHON JET, NO TABS

WITH JET

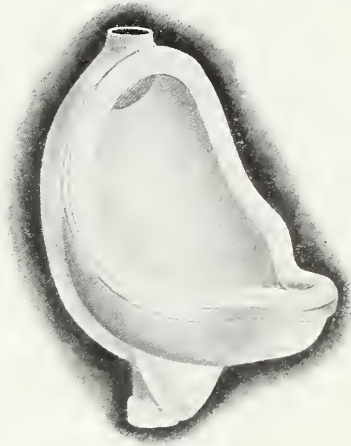


FIG. H-1313

Height over all,  $21\frac{3}{4}$  inches. Width over all,  $15\frac{1}{4}$  inches. Width over curves, 12 inches.

Each..... \$15.00

"BIDET"



FIG. H-1314

Height over all, 24 inches. Height over curves,  $22\frac{1}{4}$  inches. Width over all,  $18\frac{3}{4}$  inches. Width over Curves,  $14\frac{3}{4}$  inches.

Each..... \$15.00



FIG. H-1315

Vitreous Pedestal Bidet, with Flushing Rim and Seat integral, Nickel-plated Combination Fittings for Hot and Cold Water Supply to Bidet and Flushing Rim Supply Pipes to Floor and Nickel-plated Standing Overflow and Waste, China Name Plates on Valves and Waste, Fittings Polished and Nickel-plated all over.

As described..... \$50.00

## STANDARD EARTHENWARE

## ROUND BASINS

NO OVERFLOW, FOR METAL PLUG



FIG. H-1316

COMMON OVERFLOW, FOR METAL PLUG

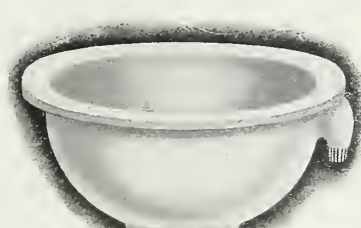


FIG. H-1317

Outside Diameter, inches.....	12	13	14	15	16
Fig. H-1316—No Overflow, each.....	\$1.00	1.00	1.00	1.50	2.00
Fig. H-1317—Common Overflow, Metal Plug, each.....	1.00	1.00	1.00	1.50	2.00

PATENT OVERFLOW, FOR METAL PLUG

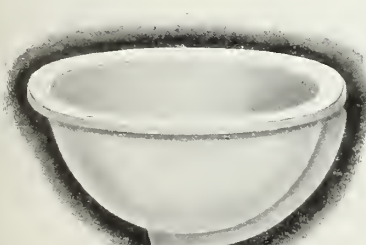


FIG. H-1318

PATENT OVERFLOW, FOR RUBBER PLUG



FIG. H-1319

Outside Diameter, inches.....	12	13	14	15	16
Fig. H-1318—Patent Overflow, Metal Plug, each.....	\$1.25	1.25	1.25	2.00	2.50
Fig. H-1319—Patent Overflow, Rubber Plug, each.....	1.50	1.50	1.50	2.50	3.00



# STANDARD EARTHENWARE

## OVAL BASINS

### FOR METAL PLUG PATENT OVERFLOW



FIG. H-1320

Outside Diameter, inches.....	14 x 17	15 x 19
Common Overflow, each .....	\$2.50	3.50
Patent Overflow, Metal Plug, each ..	3.00	4.00
Patent Overflow, Rubber Plug, each ..	3.50	4.50

## NO OVERFLOW



FIG. H-1321

Outside Diameter, inches.....	14 x 17	15 x 19
Each.....	\$2.50	3.50

## REVISED STANDARD PRICE LIST OF AMERICAN SANITARY EARTHENWARE

Adopted July 17, 1899.

Size, inches	12	13	14	15	16
Round Basins, no Overflow, each	\$1.00	\$1.00	\$1.00	\$1.50	\$2.00
Round Basins, Common Overflow, each	1.00	1.00	1.00	1.50	2.00
Round Basins, Patent Overflow, each	1.25	1.25	1.25	2.00	2.50
Round Basins, Patent Overflow, for Rubber Plug, each	1.50	1.50	1.50	2.50	3.00

Size, inches	14 x 17	15 x 19	16 x 21
Oval Basins, no Overflow, each	\$2.50	\$3.50	\$4.50
Oval Basins, Common Overflow, each	2.50	3.50	4.50
Oval Basins, Patent Overflow, each	3.00	4.00	5.00
Oval Basins, Patent Overflow, for Rubber Plug, each	3.50	4.50	5.50
Add for Embossing, each	1.00	1.00	1.00

Size, inches	14 x 17	15 x 19
Square Basins, no Overflow, each	\$5.00	\$6.00
Square Basins, Common Overflow, each	5.00	6.00
Square Basins, Patent Overflow, each	5.50	6.50
Square Basins, Patent Overflow, for Rubber Plug, each	6.00	7.00
Add, for Embossing, each	1.00	1.00
Recess Basins, Oval, each	5.00	6.00
Recess Basins, Oval, Embossed, each	6.00	7.00

Size, inches	14	15	16
Recess Basins, Round, each	\$4.50	\$5.00	\$5.50
Recess Basins, Round, Embossed, each	5.50	6.00	6.50

Size, inches	14 x 17	15 x 19
Straight Back Basins, no Overflow, each	\$4.50	\$5.50
Straight Back Basins, Patent Overflow, each	5.00	6.00
Straight Back Basins, Embossed, no Overflow, each	5.50	6.50
Straight Back Basins, Embossed, Patent Overflow, each	6.00	7.00

Size, inches	14	15	16
Straight Back Basins, Round, each	\$3.50	\$4.00	\$4.75
Straight Back Basins, Embossed, Round, each	4.50	5.00	5.75

Round French Closet Bowls, each	\$2.25
Oval Closet Bowls, each	2.50
Round Flush Rim Closet Bowls, each	2.50
Round Flush Rim Closet Bowls, with Seat Vent, each	2.75
Oval Flush Rim Closet Bowls, each	3.25
Oval Flush Rim Closet Bowls, with Seat Vent, each	3.50
Philadelphia Hoppers, each	4.50
Ship Closet Basins, No. 1, each	2.00
Ship Closet Basins, No. 2, each	2.00
Ship Plug Basins, 13 inch, each	1.50
Ship Plug Basins, 14 inch, each	1.50
Bidet Pans, for Brass Plug, each	4.00
Bidet Pans, for Brass Plug, with Overflow, each	4.25
Bidet Pans, for Brass Plug, no Hole, each	4.00

Continued on Page 462.

# STANDARD PRICE LIST OF AMERICAN SANITARY EARTHENWARE

CONTINUED.

## PLAIN WASHOUTS

No. 1 Oval, Front Outlet, each.....	\$13.25
No. 1 Oval, Back Outlet, each.....	14.00
No. 2 Oval, Front Outlet, each.....	10.25
No. 2 Oval, Back Outlet, each.....	11.00
No. 3 Oval, Front or Back Outlet, ea.....	8.00
Square, Front Outlet, each.....	17.00
Square, Back Outlet, each.....	18.00
No. 1 Square Back, Front Outlet, ea.....	15.00
No. 1 Square Back, Back Outlet, ea.....	16.00
No. 2 Square Back, Front Outlet, ea.....	13.00
No. 2 Square Back, Back Outlet, ea.....	14.00
No. 1 Washouts for Iron Traps, ea.....	7.20
No. 2 Washouts for Iron Traps, ea.....	6.60

## EMBOSSSED WASHOUTS

No. 1 Oval, Front Outlet, each.....	\$14.25
No. 1 Oval, Back Outlet, each.....	15.00
No. 2 Oval, Front Outlet, each.....	11.25
No. 2 Oval, Back Outlet, each.....	12.00
No. 3 Oval, Front or Back Outlet, ea.....	9.00
Square, Front Outlet, each.....	18.00
Square, Back Outlet, each.....	19.00
No. 1 Square Back, Front Outlet, ea.....	16.00
No. 1 Square Back, Back Outlet, ea.....	17.00
No. 2 Square Back, Front Outlet, ea.....	14.00
No. 2 Square Back, Back Outlet, ea.....	15.00

## PLAIN SYPHON JETS

No. 1 Oval, each.....	\$22.00
No. 2 Oval, each.....	17.00
No. 1 Square Back, Oval Front, ea.....	24.00
No. 2 Square Back, Oval Front, ea.....	22.00
No. 1 Square Top, each.....	24.00
No. 2 Square Top, each.....	23.00

## EMBOSSSED SYPHON JETS

No. 1 Oval, each.....	\$23.00
No. 2 Oval, each.....	18.00
No. 1 Square Back, Oval Front, ea.....	25.00
No. 2 Square Back, Oval Front, ea.....	23.00
No. 1 Square Top, each.....	25.00
No. 2 Square Top, each.....	24.00

## PLAIN PEDESTALS

No. 1 Oval, Front Outlet, each.....	\$14.25
No. 2 Oval, Front Outlet, each.....	11.25
No. 3 Oval, Front Outlet, each.....	9.00
Square, Front Outlet, each.....	18.00
Square, Back Outlet, each.....	19.00
No. 1 Square Back, Front Outlet, ea.....	16.00
No. 2 Square Back, Front Outlet, ea.....	14.00
No. 1 Square Back, Back Outlet, ea.....	17.00
No. 2 Square Back, Back Outlet, ea.....	15.00

## EMBOSSSED PEDESTALS

No. 1 Oval, Front Outlet, each.....	\$15.25
No. 2 Oval, Front Outlet, each.....	12.25
No. 3 Oval, Front Outlet, each.....	10.00
Square, Front Outlet, each.....	19.00
Square, Back Outlet, each.....	20.00
No. 1 Square Back, Front Outlet, ea.....	17.00
No. 2 Square Back, Front Outlet, ea.....	15.00
No. 1 Square Back, Back Outlet, ea.....	18.00
No. 2 Square Back, Back Outlet, ea.....	16.00

## METAL COUPLINGS

	Plain.	Polished.	Nickelpl.
$\frac{1}{2}$ in. net, each.....	.65	1.15	1.90
$\frac{3}{4}$ in. net, each.....	.65	1.15	1.90
1 in. net, each.....	.65	1.15	1.90
$1\frac{1}{4}$ in. net, each.....	.75	1.25	2.00
$1\frac{1}{2}$ in. net, each.....	\$1.00	1.50	2.25
2 in. net, each.....	1.40	1.90	2.60

Hopper Clamps, 25 cents each.  
Hand Hole Clamps with Washers, 25 cents each.

## PACKAGES TO BE CHARGED AS FOLLOWS, NET:

Packing Bulk Car.....	\$25.00
Crates, each.....	2.00
Hogsheads, Extra Large, each.....	2.00
Hogsheads, Large, each.....	1.50
Hogsheads, Medium, each.....	1.25
Hogsheads, Small, each.....	1.00
Tierces, Large, each.....	1.00
Tierces, Small, each.....	.75
Boxes, each.....	.50
Barrels, each.....	.35

Add for Seat attachment, 50 cents.

## STANDARD PRICE LIST OF AMERICAN SANITARY EARTHENWARE

CONTINUED.

Bedfordshire Urinals, No. 1, Flat, each	\$8.00
Bedfordshire Urinals, No. 2, Flat, each	6.00
Bedfordshire Urinals, No. 3, Flat, each	5.00
Bedfordshire Urinals, No. 1, Corner, each	8.00
Bedfordshire Urinals, No. 2, Corner, each	6.00
Bedfordshire Urinals, No. 3, Corner, each	5.00
Bedfordshire Urinals, No. 1, Flat, with Lip, each	10.00
Bedfordshire Urinals, No. 2, Flat, with Lip, each	8.00
Bedfordshire Urinals, No. 3, Flat, with Lip, each	7.00
Bedfordshire Urinals, No. 1, Corner, with Lip, each	10.00
Bedfordshire Urinals, No. 2, Corner, with Lip, each	8.00
Bedfordshire Urinals, No. 3, Corner, with Lip, each	7.00
No. 1, F. B., Lipped Vent and Hood Urinals, each	12.00
No. 2, F. B., Lipped Vent and Hood Urinals, each	10.00
No. 1, Corner Lipped Vent and Hood Urinals, each	12.00
No. 2, Corner Lipped Vent and Hood Urinals, each	10.00
Oval Short Hoppers and Traps Combined, each	8.00
Oval Short Hoppers and Traps Combined, Embossed, each	9.00
Square Short Hoppers and Traps Combined, each	9.50
Square Short Hoppers and Traps Combined, Embossed, each	10.50
Oval Tall Flush Rim Hoppers, each	6.50
Oval Tall Flush Rim Hoppers, with Seat Vent, each	6.75
Oval Tall Flush Rim Hoppers, with Hub Vent, each	7.00
Round Tall Flush Rim Hoppers, each	5.00
Round Tall Flush Rim Hoppers, with Seat Vent, each	5.25
Round Tall Flush Rim Hoppers, with Hub Vent, each	5.50
Square Tall Flush Rim Hoppers, 14 x 14 inches, each	8.00
Square Tall Flush Rim Hoppers, with Seat Vent, each	8.25
Square Tall Flush Rim Hoppers, with Hub Vent, each	8.50
Square Long Hoppers, 16 x 16 inches, each	12.00
Oval Short Flush Rim Hoppers, each	3.50
Oval Short Flush Rim Hoppers, with Seat Vent, each	3.75
Round Short Flush Rim Hoppers, each	2.50
Round Short Flush Rim Hoppers, with Seat Vent, each	2.75
Square Short Flush Rim Hoppers, each	5.00
Square Short Flush Rim Hoppers, with Seat Vent, each	5.25
Traps, each	3.00
Drip Trays, Oval and Round, each	3.50
Hopper Stands, each	1.30
Hopper Stands, with Hub Vent, each	1.60
Floats, Large, above 7 inches, each	.80
Floats, Small, under 7 inches, each	.60

## BATH FURNISHINGS

## COMBINATION GLASS SHELF, TUMBLER HOLDER AND TOWEL BARS

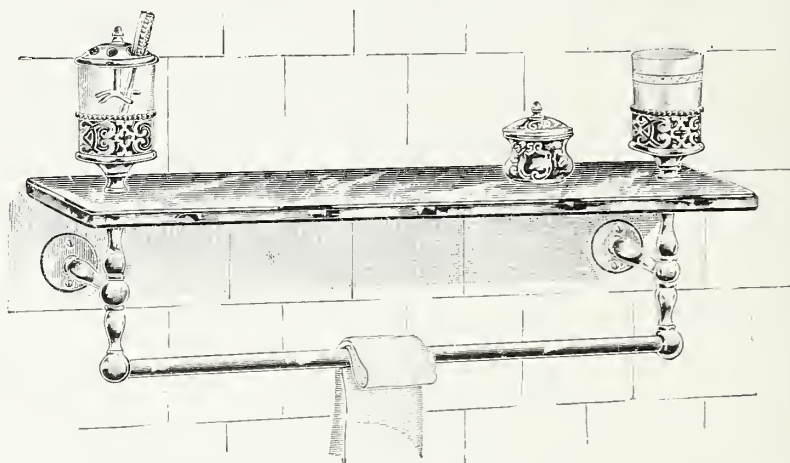


FIG. H-1322

Size of Shelf, 20 inches long, 6 inches wide, with single Glass Bar.

Each ..... \$10.00

## COMBINATION GLASS SHELF WITH BRACKET SUPPORT

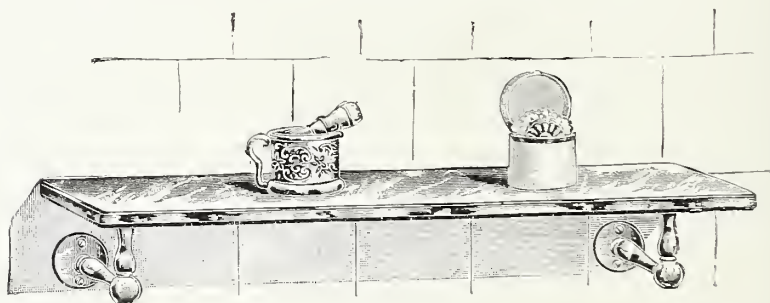


FIG. H-1323

Size of Shelf, 20 inches long, 6 inches wide.

Each ..... \$6.00



## BATH FURNISHINGS

### GLASS TOWEL BAR



FIG. H-1324

Nickel-plated Fixtures, Fitted with Glass Bar, one inch Diameter, two Hand-polished Glass Ball Ends, project  $3\frac{1}{4}$  inches, Diameter of Wall Plates,  $2\frac{1}{2}$  inches.

Length, inches.....	24	30	36	42	48
With Opal Glass Bar, each .....	\$6.25	7.50	8.75	10.00	12.50
With Crystal Glass Bar, each.....	6.25	7.50	8.75	10.00	12.50

Measurements of Length are between Centers of Balls.

### GLASS TOWEL BAR



FIG. H-1325

Nickel-plated Fixtures, Fitted with Glass Bar, One inch Diameter, Projects  $3\frac{1}{4}$  inches, Diameter of Wall Plates,  $2\frac{1}{2}$  inches.

Length, inches.....	20	26	32	38	44
With Opal Glass Bar, each.....	\$3.75	5.00	6.25	7.50	10.00
With Crystal Glass Bar, each.....	3.75	5.00	6.25	7.50	10.00

Measurements of Length are between Centers of Wall Plates.

## FOLDING TOWEL BARS



FIG. H-1326

One Arm,  $\frac{1}{4}$  inch Diameter, 16 inches long, each..... .80



FIG. H-1327

Two Arms,  $\frac{1}{4}$  inch Diameter, 16 inches long, each..... \$1.10

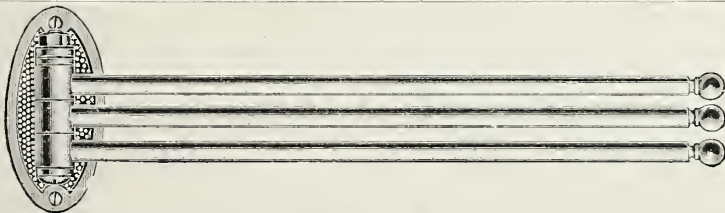


FIG. H-1328

Three Arms,  $\frac{1}{4}$  inch Diameter, 16 inches long, each..... \$1.30

## BATH FURNISHINGS

## TOWEL BARS



FIG. H-1329

—Bracket or Post Series No. 30, Extra Quality of Rod  $\frac{3}{8}$  inch Diameter, with 3 inch Wall Plate and 4 inch Projection.

No. 30—Length 15 inches, each	\$1.40
No. 31—Length 18 inches, each	1.50
No. 32—Length 24 inches, each	1.60
No. 33—Length 30 inches, each	1.74
No. 34—Length 36 inches, each	1.92
No. 35—Length 40 inches, with Center Post, each	2.35



FIG. H-1330

Bracket or Post Series No. 10, Regular Quality, Size of Rod  $\frac{3}{8}$  inch Diameter, with  $2\frac{1}{2}$  inch Wall Plate and  $3\frac{1}{2}$  inch Projection.

No. 10—Length 15 inches, each	\$1.00
No. 11—Length 18 inches, each	1.10
No. 12—Length 24 inches, each	1.20
No. 13—Length 30 inches, each	1.30
No. 14—Length 36 inches, each	1.40
No. 15—Length 40 inches, with Center Post, each	1.75



FIG. H-1331

Curved Bar Series No. 20, Regular Quality, Size of Rod  $\frac{3}{8}$  inch Diameter, with  $2\frac{1}{2}$  inch Wall Plate and  $3\frac{1}{2}$  inch Projection.

No. 20—Length 15 inches, each	.70
No. 21—Length 18 inches, each	.80
No. 22—Length 24 inches, each	.90
No. 23—Length 30 inches, each	\$1.00
No. 24—Length 36 inches, each	1.10
No. 25—Length 40 inches, each	1.20

## BATH FURNISHINGS

## TOWEL BAR



FIG. H-1332

Extra Heavy one-inch Nickel-plated Tubing. Extra Heavy Solid Brass Posts, Socket and Tubing Brazed together.

## WITH BRASS POSTS AND BRASS TUBING

---

No. 16—Length 30 inches, 1 inch Diameter, each .....	\$3.50
No. 17—Length 40 inches, 1 inch Diameter, each .....	4.50
No. 18—Length 50 inches, 1 inch Diameter, each .....	5.00
No. 19—Length 60 inches, 1 inch Diameter, each .....	6.00

---

## WITH BRASS POSTS AND WHITE "CELLU" BAR

---

No. 26—Length 30 inches, 1 inch Diameter, each .....	\$3.50
No. 27—Length 40 inches, 1 inch Diameter, each .....	4.50
No. 28—Length 50 inches, 1 inch Diameter, each .....	5.00
No. 29—Length 60 inches, 1 inch Diameter, each .....	6.00

---

## WITH BRASS POSTS AND OPAL GLASS BAR

---

No. 36B—Length 30 inches, 1 inch Diameter, each .....	\$3.50
No. 37B—Length 40 inches, 1 inch Diameter, each .....	4.50
No. 38B—Length 50 inches, 1 inch Diameter, each .....	5.00
No. 39B—Length 60 inches, 1 inch Diameter, each .....	6.00

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Special Sizes and Lengths made to order.

## BATH FURNISHINGS

## SOAP DISHES

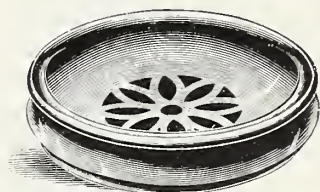


FIG. H-1333

Round. Nickel-plated. Diameter,  $4\frac{1}{4}$  inches. Height,  $1\frac{1}{4}$  inches. Has a removable Drainer.

Per dozen ----- \$12.00



FIG. H-1334

Oval. Nickel-plated. Extreme measurements,  $5\frac{1}{2}$  x  $4\frac{1}{4}$  inches. Has a removable Drainer.

Per dozen ----- \$15.00

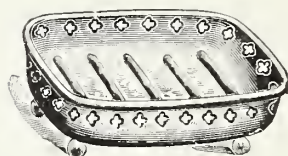


FIG. H-1335

Oblong. Nickel-plated. Size, 5 x 4 x  $1\frac{1}{8}$  inches. Has Four Ball Feet.

Per dozen ----- \$15.00

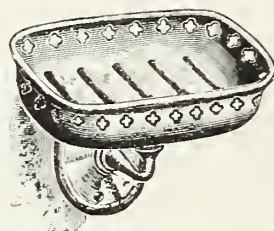


FIG. H-1336

Oblong. Nickel-plated. Size, 5 x 4 x  $1\frac{1}{8}$  inches. Projects  $4\frac{1}{2}$  inches. Diameter of Wall Plate, 2 inches.

Per dozen ----- \$19.50

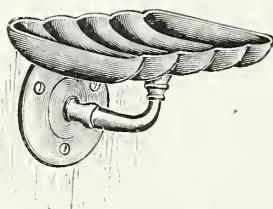


FIG. H-1337

Oblong. Nickel-plated. Size,  $4\frac{1}{2}$  x 3 inches. Projects 4 inches. Diameter of Wall Plate, 2 inches.

Per dozen ----- \$15.00

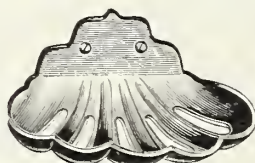


FIG. H-1338

Nickel-plated. Size,  $4\frac{1}{2}$  x 3 inches. Projects 3 inches.

Per dozen ----- \$7.50



## BATH FURNISHINGS

The Hangers are Malleable and *can be adjusted* to fit rim of any bathtub.

## SOAP RACK

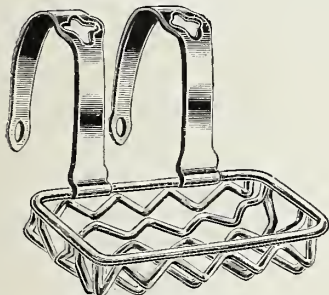


FIG. H-1339

Oblong. Nickel-plated. Size of Rack, 6 x 3½ x 1½ inches. Hangers, 9 inches long.

Per dozen ..... \$22.50

## SOAP RACK

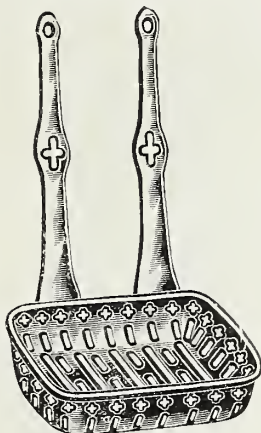


FIG. H-1340

Oblong. Nickel-plated. Size of Rack, 5 x 4 x 1½ inches. Hangers, 9 inches long.

Per dozen ..... \$19.50

## SOAP RACK AND SPONGE HOLDER



FIG. H-1341

Nickel-plated Fixtures. Extreme Height, 9 inches. Diameter of Sponge Holder, 7¼ inches. Extreme depth of Sponge Holder, 3 inches. Size of Soap Rack, 6 x 3½ x 1¼ inches.

Per dozen ..... \$60.00

## SPONGE HOLDER

## SPONGE HOLDER



FIG. H-1342

Nickel-plated. Diameter, 6 inches. Projects 6¾ inches. Extreme depth, 2 inches. Diameter of Wall Plate, 2½ inches.

Per dozen ..... \$30.00

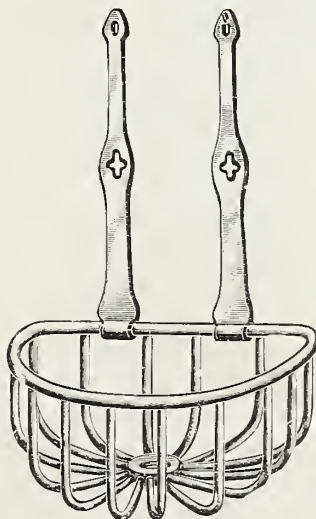


FIG. H-1343

Nickel-plated. Extreme measurements of Holder, 8 x 5½ x 3¾ inches. Hangers are 9 inches long and *can be adjusted* to fit rim of any bath tub.

Per dozen ..... \$37.50



## BATH FURNISHINGS

## COMBINATION SOAP DISH, TUMBLER AND TOOTH BRUSH HOLDERS

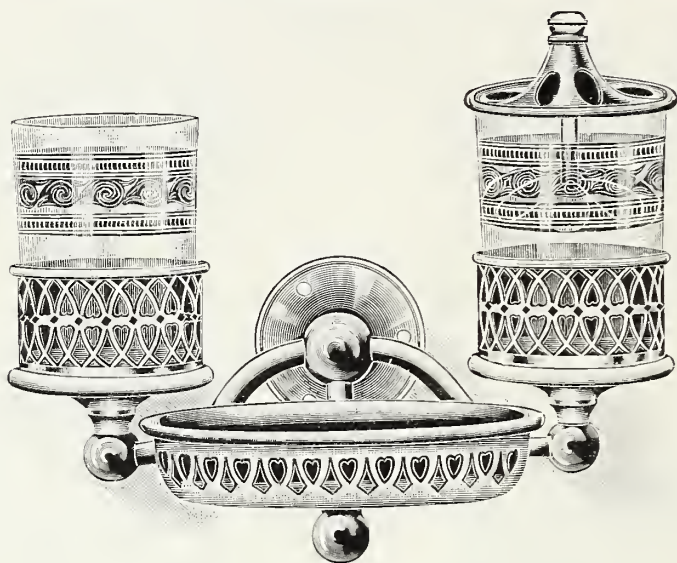


FIG. H-1344

COMBINATION SOAP DISH  
AND TUMBLER HOLDER

FIG. H-1344

Nickel-plated Fixtures. Spread 10 inches. Extreme Height,  $7\frac{1}{2}$  inches. Projects  $6\frac{1}{2}$  inches. Has two Crystal Glass Tumblers. Holds five Tooth-brushes. Extreme measurements of Soap Dish,  $5\frac{5}{8} \times 3\frac{1}{2} \times 1\frac{1}{8}$  inches. Diameter of Wall Plate,  $2\frac{1}{2}$  inches.

Per dozen ----- \$60.00

FIG. H-1345



FIG. H-1345

Nickel-plated Fixtures. Extreme Height, 9 inches. Projects 6 inches. Extreme measurements of Soap Dish,  $5\frac{5}{8} \times 3\frac{1}{2} \times 1\frac{1}{8}$  inches. Has a Crystal Glass Tumbler.

Per dozen ----- \$37.50

## BATH FURNISHINGS

TUMBLER HOLDER

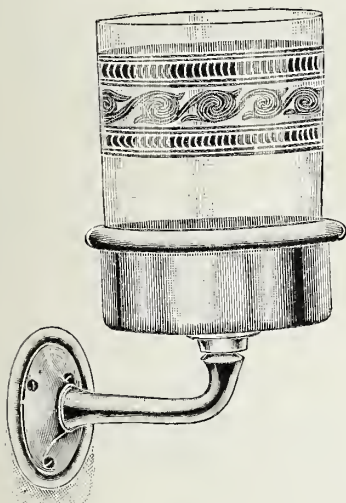


FIG. H-1346

Nickel-plated. Extreme height,  $5\frac{7}{8}$  inches. Projects  $4\frac{1}{8}$  inches. Has a Crystal Glass Tumbler. Diameter of Wall Plate, 2 inches.

Per dozen ..... \$15.00

TOOTH BRUSH HOLDER



FIG. H-1348

Nickel-plated. Size,  $9\frac{1}{2} \times 1\frac{3}{4}$  inches. Holds six brushes—four tooth brushes, and two nail brushes. Has a Solid Beaded Edge.

Per dozen ..... \$22.50

TUMBLER AND TOOTH BRUSH HOLDER

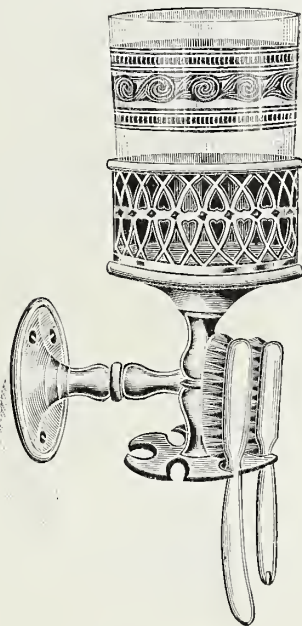


FIG. H-1347

Nickel-plated. Extreme height,  $7\frac{1}{4}$  inches. Projects 4 inches. Holds five tooth-brushes. Has a Crystal Glass Tumbler. Diameter of Wall Plate, 2 inches.

Per dozen ..... \$24.00

TOOTH BRUSH HOLDER



FIG. H-1349

Nickel-plated. Size,  $5\frac{3}{4} \times 1\frac{3}{4}$  inches. Holds three tooth brushes. Has a Solid Beaded Edge.

Per dozen ..... \$12.00

## BATH FURNISHINGS

## ROBE HOOKS



FIG. H-1350

Nickel-plated. Size of Wall Plate,  
 $7\frac{3}{4} \times 1\frac{3}{4}$  inches.

Per dozen ..... \$12.00

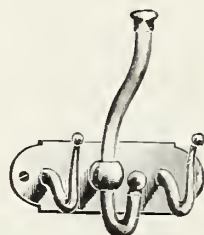


FIG. H-1351

Nickel-plated. Size of Wall Plate,  $5 \times 1\frac{3}{4}$  inches.

Per dozen ..... \$21.00



FIG. H-1352

Nickel-plated. Diameter of Wall  
 Plate,  $2\frac{1}{2}$  inches.

Per dozen ..... \$8.75



FIG. H-1353

Nickel-plated. Diameter of Wall  
 Plate, 2 inches.

Per dozen ..... \$3.75

## TOILET PAPER HOLDERS

FOR ROLL PAPER, 5 INCHES WIDE BY 4 INCHES IN DIAMETER

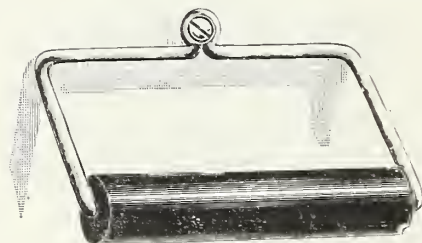


FIG. H-1354

Nickel-plated, per dozen ..... \$3.75

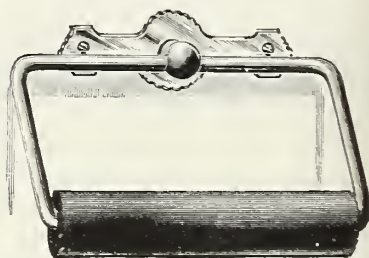


FIG. H-1355

Nickel-plated, per dozen ..... \$12.00

## BATH FURNISHINGS

## TOILET PAPER HOLDERS

FOR ROLL PAPER 5 INCHES WIDE BY  
4 INCHES IN DIAMETER

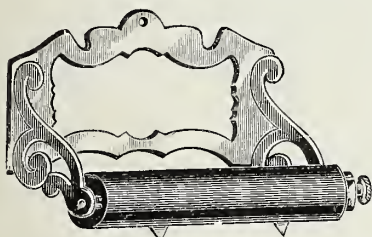


FIG. H-1356

Nickel-plated. Has a Spring Roller, which prevents wasting of paper.

Per dozen ..... \$24.00

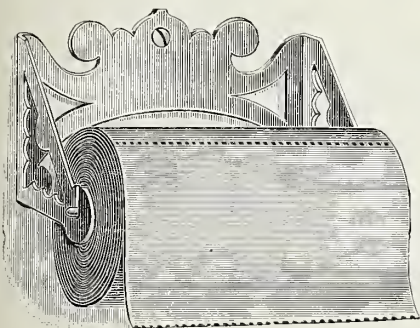


FIG. H-1358

Nickel-plated, per dozen ..... \$18.00

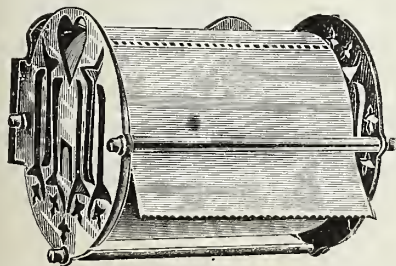


FIG. H-1359

Nickel-plated, per dozen ..... \$45.00

SHEET BRASS WITH SOLID BEADED EDGE

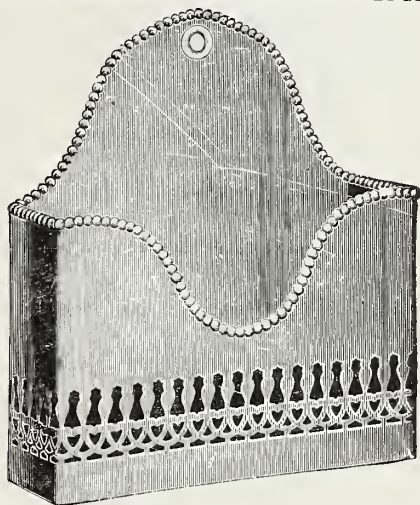


FIG. H-1357

Perforated. For Flat Paper Sheet,  $7\frac{1}{2} \times 5\frac{1}{2}$  inches; size of Holder, 10 x 6 inches, each \$1.50  
Not Perforated. For Flat Paper Sheet,  $7\frac{1}{2} \times 5\frac{1}{2}$  inches; size of Holder, 6 x 10 inches, each 1.50

BATH  
THERMOMETER

FIG. H-1360

Accurately registers the temperature of either atmosphere or water.

When hung up it shows the temperature of atmosphere.

When put in water it indicates the temperature of same hot, warm, tepid, cold or freezing.

Fitted into a Durable Nickel-plated Brass Case,  $7\frac{3}{4}$  in. long and 1 inch wide to prevent thermometer from breaking. A 12 inch chain with ring is attached to top of thermometer so that same can be conveniently hung from faucet or otherwise.

Per dozen ..... \$19.50



FIG. H-1360



BATH FURNISHINGS

BATH SEATS

WHITE ENAMEL SEAT



FIG. H-1361

WEBBING SEAT

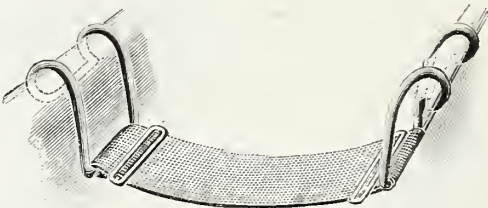


FIG. H-1362

EMPIRE



FIG. H-1363

MONARCH



FIG. H-1364

Figures	H-1361	H-1362	H-1363	H-1364
Each	\$1.80	1.50	2.50	1.50



## BATH FURNISHINGS

BATHROOM STOOL

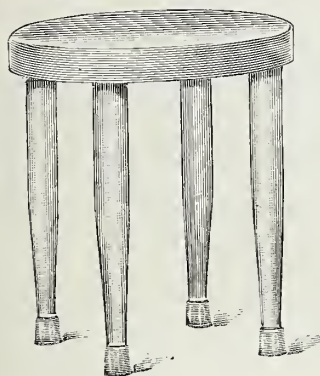


FIG. H-1365

Handsome, strong, and of superior quality. Made of selected Kiln-dried Wood and finished in White Ivory Enamel. Is impervious to water, and can be used in the bathtub or on the bathroom floor. Has rubber bumpers on the legs to prevent scratching of tub. Height 15 inches. Diameter of Seat, 13 inches.

Each ..... \$11.25

"CANTSLIP" RUBBER BATH MAT

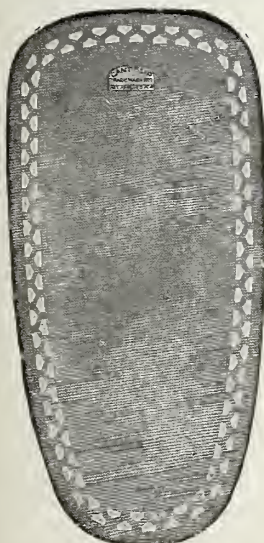


FIG. H-1367

With nickel-plated wall hanger,

30 x 15 inches, each ..... \$2.75  
 36 x 15 inches, each ..... 3.00  
 42 x 15 inches, each ..... 3.25

CORK BATH MAT

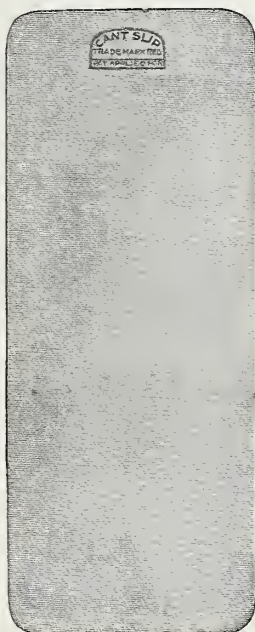


FIG. H-1366

32 x 18 inches, each ..... \$4.25

RUBBER BATH MAT

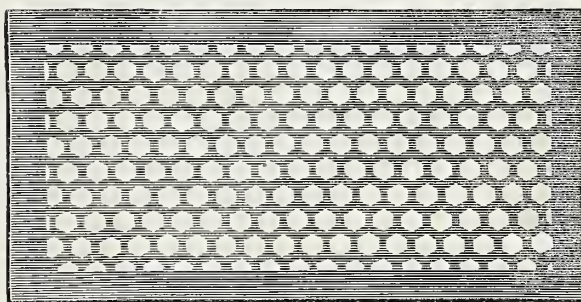


FIG. H-1368

Made of the best quality Rubber and pleasingly designed. Can be used on the bathroom floor or in the bathtub. A small thing in itself, it is a welcome addition to the comfort of the bather. Used in the bathtub it prevents serious accidents which sometimes occur from slipping. Used on the bathroom floor it protects the bather's feet from contact with the cold floor when emerging from the bath. Size, 10 x 30 inches.

Each ..... \$3.75

**BATH FURNISHINGS**  
MIRRORS  
OVAL



**FIG. H-1369**

Fitted with  $\frac{3}{8}$  inch Nickel-plated Brass Frame and Heavy French Plate Glass with 1 inch Bevel.

Oval, Size 16 x 24 inches, each.....	\$15.00
Oval, Size 18 x 30 inches, each.....	18.75
Oval, Size 22 x 32 inches, each.....	22.50

**OBLONG—(Not Illustrated.)**

Oblong, Size 18 x 24 inches, each.....	\$15.00
Oblong, Size 18 x 30 inches, each.....	17.50
Oblong, Size 18 x 36 inches, each.....	20.00
Oblong, Size 24 x 30 inches, each.....	22.50

Sizes given are for the Glass only.

**OVAL**



**FIG. H-1370**

Trimmed with Solid Beaded Edge, Fitted with  $\frac{3}{8}$  inch Nickel-plated Brass Frame and Heavy French Plate Glass with 1 inch Bevel.

Oval, Size 16 x 24 inches, each.....	\$17.50
Oval, Size 18 x 30 inches, each.....	21.90
Oval, Size 22 x 32 inches, each.....	26.25

**OBLONG— Not Illustrated.)**

Oblong, Size 18 x 24 inches, each.....	\$17.50
Oblong, Size 18 x 30 inches, each.....	20.00
Oblong, Size 18 x 36 inches, each.....	23.75
Oblong, Size 24 x 30 inches, each.....	26.25

Sizes given are for the Glass only.

## BATH FURNISHINGS

## MEDICINE CABINET

HANDSOME AND STRONG. FINISHED  
IN WHITE IVORY ENAMEL



FIG. H-1371

FIG. H-1371

Fitted with Heavy French Plate-glass Beveled Mirror Door, two French Plate-glass shelves, Nickel-plated Knob, Lock and Key. Inside measurements: Height,  $20\frac{1}{2}$  inches; Width,  $14\frac{3}{4}$  inches; Depth, 4 inches.

Each ----- \$37.50

MEDICINE CABINET  
WHITE ENAMEL FINISH

FIG. H-1372

Fitted with Bevel French Plate Mirror in Door, Plate-glass Shelves, Nickel-plated Trimmings, Lock and Key.

Size,  $23\frac{1}{2} \times 17\frac{1}{2} \times 5$  inches, each ----- \$13.00

Size,  $19\frac{1}{2} \times 15\frac{1}{2} \times 5$  inches, each ----- 10.50



FIG. H-1372

## SOLID PORCELAIN LAUNDRY TRAY

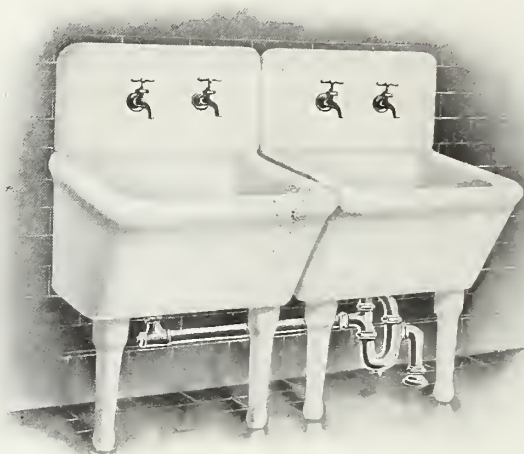


FIG. H-1373

Three-quarter Roll-Rim Porcelain Laundry Trays with Loose Backs. Height of Back only, 15 inches.

Dimensions.	List. each Tray. only.		List. each Back. only.	
	"A"	"B"	"A"	"B"
24 x 24 x 17 inches .....	\$19.00	13.30	\$5.50	3.85
26 x 24 x 17 inches .....	20.00	14.00	6.00	4.20
29 x 24 x 17 inches .....	21.00	14.70	6.50	4.55

List, per pair, Porcelain Legs with Metal Straps to Wall.....	"A"	"B"
	\$9.00	6.30

List, per pair, Bronzed Iron Tray Legs.....	\$4.00
---------------------------------------------	--------

List, per pair, Galvanized Iron Standards. complete..	6.00
-------------------------------------------------------	------



## PORCELAIN ENAMELED LAUNDRY TRAY ROLL-RIM

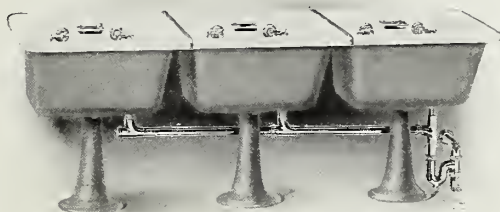


FIG. H-1374

Porcelain Enameled Roll-Rim Laundry Trays, with Nickel-plated Union Strips, Soap Dishes, Waste Plugs, Couplings, and Rubber Stoppers, Nickel-plated Fuller Adjustable Flange Bibbs through Back of Trays, Nickel-plated Continuous Waste and Vented S Trap.

### DIMENSIONS

Front to Back, inside,  $21\frac{3}{4}$  inches; Outside, 27 inches. Length inside, 23 inches. Length over all (set of three Trays), 83 inches. Depth inside,  $14\frac{1}{4}$  inches. Height from Floor to Top of Rim,  $31\frac{1}{2}$  inches.

	One Section.	Two Sections.	Three Sections.
As described .....	\$26.00	46.00	66.25
Less Waste, Trap and Bibbs .....	17.00	30.00	45.00
For Brass Overflow, add each Tray .....			\$2.00
If with Wringer Attachment, add each .....			3.00
If with 12 inch Enameled Backs, add each .....			3.00

### FLAT RIM

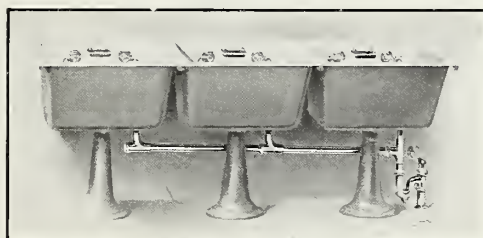


FIG. H-1375

Porcelain Enameled Flat Rim Laundry Trays, with Nickel-plated Soap Dishes, Waste Plugs, Couplings and Rubber Stoppers, Nickel-plated Fuller Adjustable Flange Bibbs, Continuous Waste and Vented S Trap.

### DIMENSIONS

Front to Back, inside, 22 inches; Outside,  $25\frac{1}{2}$  inches. Length inside, 23 inches. Length over all (set of three Trays), 78 inches. Depth inside,  $14\frac{1}{4}$  inches. Height from Floor to Top of Rim,  $31\frac{1}{4}$  inches.

	One Section.	Two Sections.	Three Sections.
As described .....	\$20.00	38.00	54.25
Less Waste, Trap and Bibbs .....	11.00	22.00	33.00
For Brass Overflow, add each Tub .....			\$2.00
If with Wringer Attachment, add each .....			3.00
For Hinged Ash Covers, add each Tray .....			3.00



## VITRIFIED BROWN GLAZED LAUNDRY TRAY

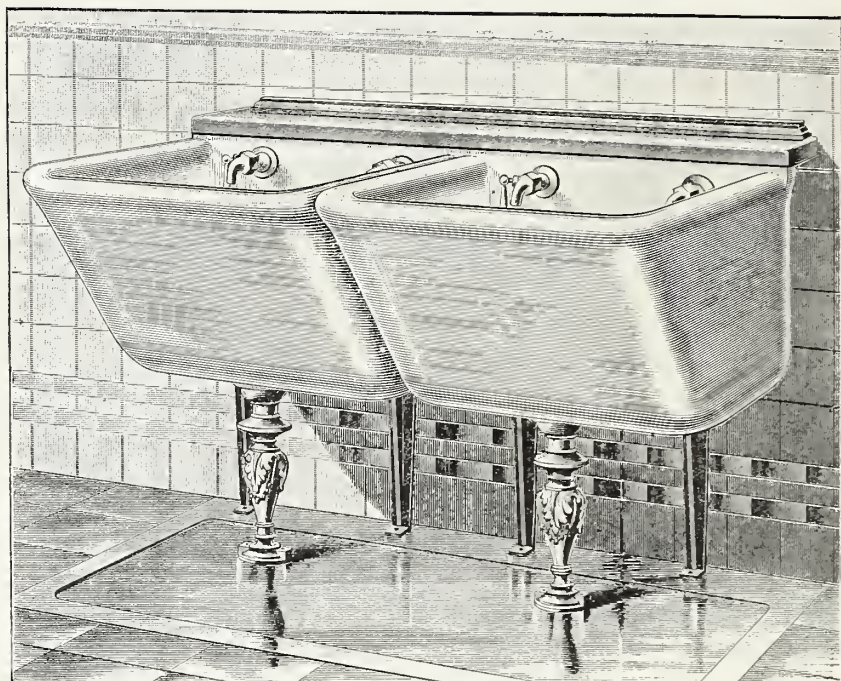


FIG. H-1376

Vitrified Brown Glazed Earthenware Roll-Rim Laundry Trays with Bronzed Iron Standards.

Sizes, Outside Measurements—Length, 30 inches; Width,  $24\frac{1}{2}$  inches; Depth, 17 inches.

	Class "A"	Class "B"
Set of 2 Trays, complete as described.....	\$31.00	21.00
Set of 3 Trays, complete as described.....	46.50	31.50
Set of 4 Trays, complete as described.....	62.00	42.00
Ash Cap for 2 Trays.....		\$3.00
Ash Cap for 3 Trays.....		4.00
Ash Cap for 4 Trays.....		5.00
	Class "A"	Class "B"
Earthenware Standards, each.....	\$5.00	4.00
Earthenware Legs, per pair.....	7.00	5.00
Brass Plug and Coupling, add \$1.00 per Tray.		

## VITRIFIED BROWN GLAZED LAUNDRY TRAY

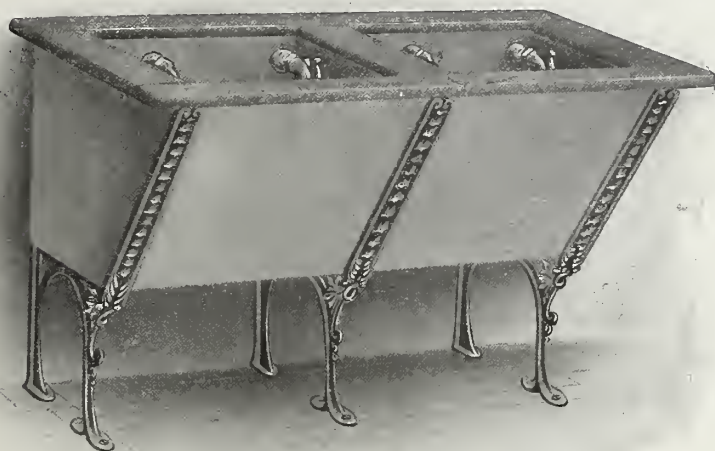


FIG. H-1377

Vitrified Brown Glazed Earthenware Laundry Trays.

## DIMENSIONS

Length, 28 inches ; Width,  $24\frac{1}{2}$  inches ; Depth,  $16\frac{1}{2}$  inches

Length, 26 inches ; Width,  $24\frac{1}{2}$  inches ; Depth,  $16\frac{1}{2}$  inches

Length, 24 inches ; Width,  $24\frac{1}{2}$  inches ; Depth,  $16\frac{1}{2}$  inches

Each Tub composed of one solid piece of hard burned Earthenware,  $1\frac{1}{2}$  inch thick, and covered on the inside and outside with a thick Brown Glaze.

	Class A.	Class B.
Set of two Trays, Bronzed Iron Legs and Ash Frame .....	\$22.50	18.50
Set of three Trays, Bronzed Iron Legs and Ash Frame .....	33.25	27.25
Set of four Trays, Bronzed Iron Legs and Ash Frame .....	44.00	36.00
Covers, per Opening .....	\$1.80	

## ALBERENE STONE LAUNDRY TRAY

WITH BRASS PLUGS AND PAINTED IRON LEGS

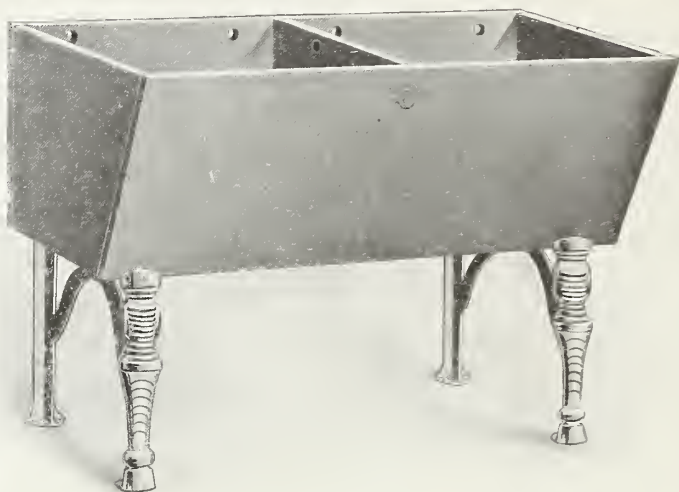


FIG. H-1378

Two Compartments, 4 feet long.

Length.	Bare Tub.	Tub with Plugs.	Tub. Plugs and Legs.	Tub. Plugs, Legs and Covers.
24 inch—1 Part.....	\$13.00	13.30	14.00	15.00
30 inch—1 Part.....	15.00	15.30	16.00	17.00
42 inch } 44 inch } 46 inch } 48 inch }	21.60	22.00	22.50	24.00
54 inch—2 Part.....	27.10	27.50	28.00	29.50
60 inch—2 Part.....	34.60	35.00	35.50	37.00
72 inch—3 Part.....	41.50	42.00	43.00	45.00
78 inch—3 Part.....	47.50	48.00	49.00	51.00
84 inch—3 Part.....	56.50	57.00	58.00	60.00

If Plugs and Couplings are wanted instead of ordinary Brass Plugs,  
add per Plug ..... \$0.50

If Twin Connection Tubs are wanted in two Part, four foot, add per  
set ..... 2.00

If Galvanized Legs are wanted instead of Painted, add per Leg.... .50

Tubs with Faucet Holes will be sent unless otherwise ordered.

## GRANITE LAUNDRY TRAY

WITH PATENT METALLIC CASINGS, OVERFLOW AND WASTE CONNECTIONS

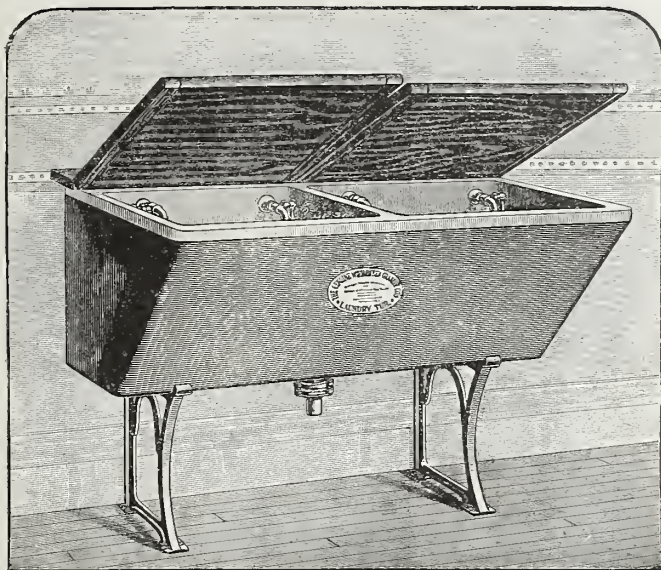


FIG. H-1379

## GRANITE LAUNDRY TRAYS

## ONE PART TRAY

No.	Length, inches.	Width, inches.	Depth, inches.	
101.....	25	21	16	\$9.00
102.....	25	24	16	9.50
103.....	27	24	16	10.00
104.....	31	24	16	12.00

## TWO PART TRAY

No.	Length, inches.	Width, inches.	Depth, inches.	
111.....	48	21	16	\$14.50
112.....	48	24	16	17.50
113.....	53	24	16	18.50
114.....	60	24	16	19.50

## THREE PART TRAY

No.	Length, inches.	Width, inches.	Depth, inches.	
121.....	72	21	16	\$25.00
122.....	72	24	16	29.50
123.....	80	24	16	30.00
124.....	90	24	16	32.00

This Tub has the Overflows in the partition connected with the Waste, and is the most Improved Sanitary Tub in the market.

## ASH AND PINE WOOD PANEL COVERS

All Covers  $1\frac{1}{4}$  inch thick.

Covers, One Part.....	\$1.75	Two Part.....	\$3.50	Three Part.....	\$5.25
Legs, Plain, each.....	.70	Painted, each.....	.75	Galvanized, each.....	1.25



## SOLID PORCELAIN SLOP SINKS

FIG. H-1380

Three-Quarter Roll-Rim Porcelain Slop Sink,  
on Porcelain Pedestal Trap.



FIG. H-1380

Number	1	2	3
Length Outside, inches	20	22	24
Width Outside, inches	16	18	20
Depth Inside, inches	12	12	12
Height Back	12	12	12
List, Sink only, "A" Quality	\$14.00	18.00	22.00
List, Sink only, "B" Quality	9.80	12.60	15.40
List, Back only, "A" Quality	4.50	5.00	5.50
List, Back only, "B" Quality	3.15	3.50	3.85
List, Porcelain Pedestal Trap Stand- ard, "A" Quality	\$10.00		
List, Porcelain Pedestal Trap Stand- ard, "B" Quality	7.00		
List, Iron Trap Standard, Enameled Inside only	8.00		
List, Iron Trap Standard, Enameled Inside and Outside	9.00		
List, N. P. Slop Sink Strainer	3.00		

FIG. H-1381

All Roll-Rim Porcelain Slop Sink on  
Iron Trap Standard.



FIG. H-1381

Number	1	2	3
List, Sink only "A"	\$14.00	18.00	22.00
List, Sink only "B"	9.80	12.60	15.40
List, Iron Trap Standard, Enameled Inside	\$8.00		
List, Iron Trap Standard, Enameled Inside and Outside	9.00		
List, Porcelain Pedestal Trap Standard	10.00		



## PORCELAIN ENAMELED SLOP SINKS

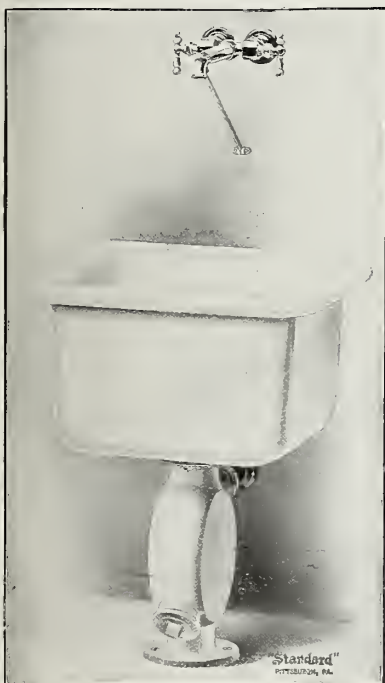


FIG. H-1382

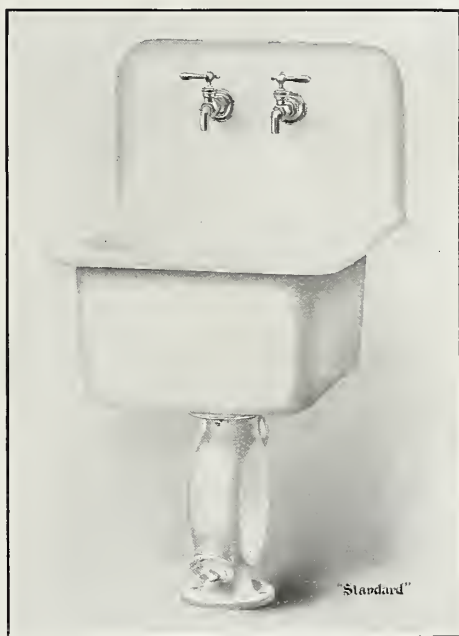


FIG. H-1383

FIG. H-1382

Porcelain Enameled Slop Sinks, with Roll-Rim on all sides, on Trap Standard with Cleanout and 2 inch Nickel-plated Vent Connection to Wall, Nickel-plated Strainer, Fuller Combination Slop Sink Cock, with Bucket Hook and Wall Support.

Size, inches	16 x 20	18 x 22	20 x 22	20 x 24
Enameled Inside, as described	\$21.00	23.00	24.00	25.00
Enameled all over, as described	26.00	28.00	29.50	30.50
If without Fuller Combination Slop Sink Cock, deduct				\$7.00

FIG. H-1383

Porcelain Enameled Roll-Rim One Piece Slop Sinks, with 12 inch Porcelain Enameled Back on Trap Standard, with Cleanout and 2 inch Nickel-plated Vent Connection to Wall, Nickel-plated Strainer, Concealed Galvanized Air Chambers and Nickel-plated Fuller Adjustable Flanged Bibbs.

Size, inches	16 x 20	18 x 22	20 x 22	20 x 24
Enameled Inside, as described	\$20.50	22.50	23.50	24.50
Enameled all over, as described	25.50	27.50	29.00	30.00
If without Bibbs, deduct per pair				\$2.50
If without Galvanized Air Chambers, deduct per pair				2.00

# PORCELAIN ENAMELED SLOP SINK

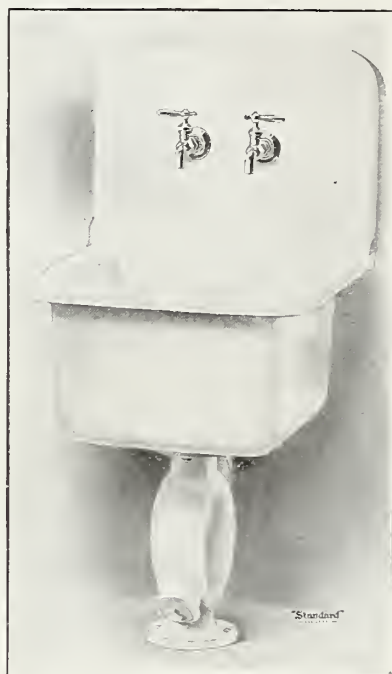


FIG. H-1384

Porcelain Enameled Roll-Rim Slop Sink, with 15 inch Porcelain Enameled Back, on Trap Standard with Cleanout and 2 inch Nickel-plated Vent Connection to Wall, Nickel-plated Strainer, Concealed Galvanized Air Chambers and Nickel-plated Fuller Adjustable Flange Bibbs.

Size, inches .....	16 x 20	18 x 22	20 x 22	20 x 24
Enameled Inside, as described .....	\$20.50	22.50	23.50	24.50
Enameled all over, as described .....	25.50	27.50	29.00	30.00
If without Bibbs, deduct per pair .....				\$2.50
If without Galvanized Air Chambers, deduct per pair .....				2.00

## PORCELAIN ENAMELED SLOP SINK

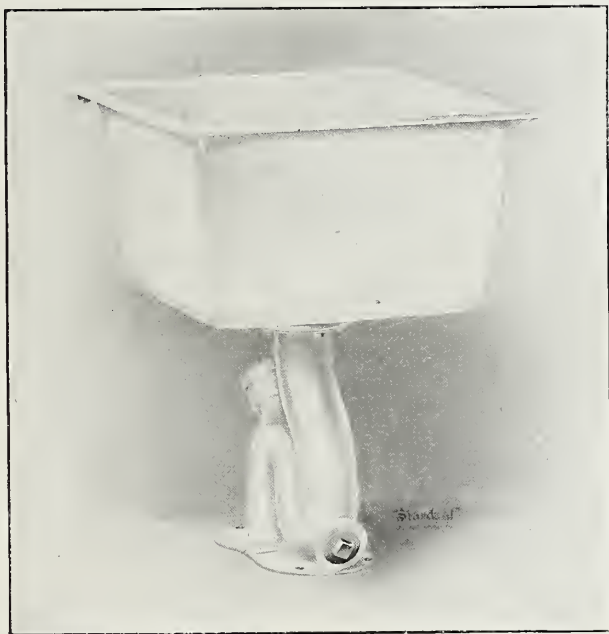


FIG. H-1385

Porcelain Enameled Flat Rim Sink, on Trap with Cleanout and Hub Vent, and Nickel-plated Strainer.

---

Size, inches.....	16 x 16	16 x 20	18 x 22	20 x 22	20 x 24
Enameled Inside, as described .....	\$11.00	12.00	13.50	14.25	15.00
Enameled all over, as described .....	16.00	17.00	18.50	19.75	20.50

---

If with Enameled Iron Back, add, 16 inch Back, \$2.50; 20 inch Back, \$2.75; 22 inch Back, \$3.00; 24 inch Back, \$3.25.

If with Hardwood Rim, add ..... \$2.00

---

## VITRIFIED BROWN GLAZED SLOP SINKS



FIG. H-1386

FIG. H-1386

Vitrified Brown Glazed Earthenware Full Roll-Rim Slop Sinks, with Bronzed Iron Trap Standard and Nickel-plated Brass Strainer.

	Class A	Class B
20x16x12 in...	\$18.00	16.50
22x18x12 in...	20.00	18.50
24x20x12 in...	23.50	21.00

Add for Fuller Polished Brass Faucets, per pair ----- \$5.00

FIG. H-1387

Vitrified Brown Glazed Earthenware Roll-Rim Slop Sinks and Backs, with Bronzed Iron Trap Standard and Nickel-plated Brass Strainer.

	Class A	Class B
20x16x12 inches..	\$21.00	19.00
22x18x12 inches..	23.25	21.25
24x20x12 inches..	27.00	24.00

Add for Fuller Polished Brass Faucets, per pair ----- \$5.50



FIG. H-1387

## PANTRY SINKS

## OVAL STEEL



FIG. H-1388

FIG. H-1388

Size, 14 x 20 x 6 inches

Painted, each	\$2.00
Galvanized, each	3.50
Gray Enameled, each	5.50
White Enameled, each	6.50

If with Patent Overflow, add 50 cents net, each.

Patent Rubber Stopper, 25 cents net, each.

## OVAL COPPER AND GERMAN SILVER

FIG. H-1389

	Copper.	German Silver.
12 x 18 inches, each	\$6.00	11.00
12 x 20 inches, each	6.50	12.00
14 x 16 inches, each	6.00	13.00
14 x 20 inches, each	7.50	14.00
14 x 24 inches, each	9.00	16.50
16 x 24 inches, each	10.00	18.50
16 x 30 inches, each	12.00	21.50
18 x 30 inches, each	13.00	24.00

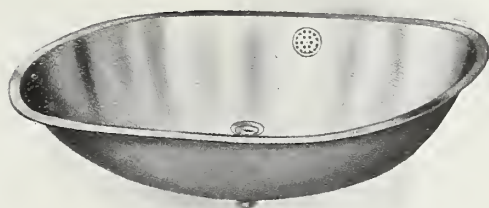


FIG. H-1389

If with Connected Overflow, Waste Plug, Coupling and Tail Piece, add \$2.00.

## SQUARE COPPER

FIG. H-1390



FIG. H-1390

12 x 18 inches, each	\$4.50
12 x 20 inches, each	5.00
14 x 16 inches, each	4.50
14 x 20 inches, each	6.00
14 x 24 inches, each	7.00
16 x 24 inches, each	8.00
16 x 30 inches, each	10.00
18 x 30 inches, each	11.00



## SOLID PORCELAIN KITCHEN SINK



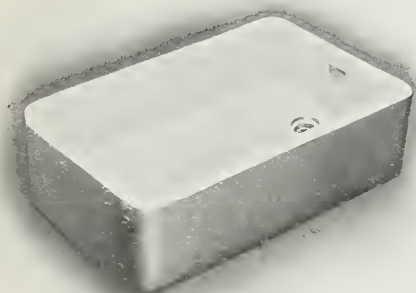
FIG. H-1391

Three-Quarter Roll-Rim Porcelain Kitchen Sinks.

Number .....	0	1	2	3	4
Length Outside, inches .....	24	30	36	42	48
Width Outside, inches .....	17	20	23	24	24
Depth Inside, inches .....	6	7	7	7	7
Height of Back, inches .....	15	15	15	18	18
List, Sink only, "A" Quality .....	\$12.00	18.00	22.00	29.00	36.00
List, Back only, "A" Quality .....	5.50	7.00	8.00	10.00	12.00
List, Sink only, "B" Quality .....	8.40	12.60	15.40	20.30	25.20
List, Back only, "B" Quality .....	3.85	4.90	5.60	7.00	8.40
List, per pair, Solid Porcelain Legs, with Iron Braces. Complete, "A" Quality \$12.00					
List, per pair, Solid Porcelain Legs, with Iron Braces. Complete, "B" Quality 8.40					

## SOLID PORCELAIN PANTRY SINKS

### FLAT RIM



Galvanized Brackets, per pair	\$5.50
Nickel-plated Plug and Coupling	1.30
Nickel-plated Overflow Grid and Coupling	1.50

FIG. H-1392

Number.	Length Outside, inches.	Width Outside, inches.	Depth Inside, inches.	List "A"	List "B"
1	20	14	5	\$6.00	4.20
2	23	16	6	8.00	5.60
3	24	17	6	9.00	6.30
4	28	17	6	11.00	7.70
5	30	20	7	13.00	9.10
<b>EXTRA DEEP</b>					
1	28	18	10	\$13.00	9.10
2	30	20	10	16.00	11.20

### FLAT RIM—RECESS

List, Nickel-plated Standing  
Overflow and Waste..... \$5.00



FIG. H-1393

Number.	Length Outside, inches.	Width Outside, inches.	Depth Inside, inches.	List "A"	List "B"
1	24	17	6	\$10.00	7.00
2	28	17	6	12.00	8.40
3	30	20	7	14.00	9.80

ALBERENE STONE KITCHEN SINK

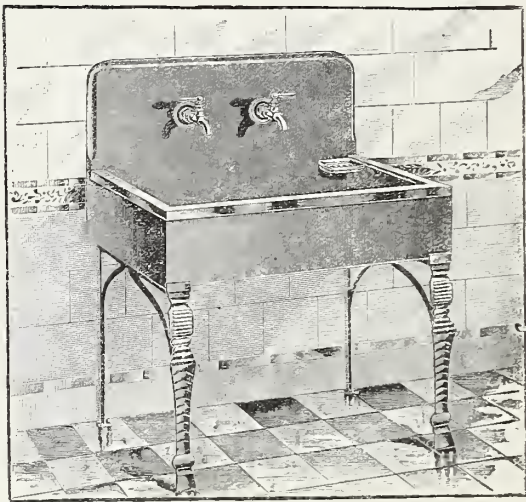


FIG. H-1394

With High Back, Soap Cup, Galvanized Legs and Polished Brass Rim.

Height of Back, 12 inches ; Depth 8 inches.

Size of Sink	18 x 24	20 x 30	20 x 36	22 x 30	22 x 36
With Brass Rim, each	\$20.00	21.00	22.00	22.00	23.00
Without Brass Rim, each	14.50	15.25	16.00	16.25	17.00
Size of Sink		22 x 42	24 x 30	24 x 36	24 x 48
With Brass Rim, each		\$24.00	23.00	24.50	27.00
Without Brass Rim, each		17.75	17.25	18.50	20.50

All Measurements are Outside.

If without Soap Cup, deduct	.50
If with Painted Iron Legs, deduct	1.00
Bevel Front Sinks, add	2.00
Brass Strainer, less Coupling, add	.35
Brass Strainer, with Coupling, add	.75
Polished Brass Round Legs, add	3.50

NOTE.—We do not furnish Faucets, but Sinks with Faucet Holes 8 inches apart (from center to center), and 14 inches from center to the bottom (inside) of Sink will be sent, unless otherwise ordered.

FIG. H-1395 —(Not Illustrated)

With Soap Cup and Galvanized Extension Legs, but without Back or Brass Rim.

Depth of Sink, 8 inches.

Size of Sink	18 x 24	20 x 30	20 x 36	22 x 30	22 x 36	22 x 42	24 x 30	24 x 36	24 x 48
Each	\$11.50	12.25	13.00	13.00	13.25	13.50	13.25	14.00	15.00

All Measurements are Outside.

If without Soap Cup, deduct	.50	Brass Strainer, less Coupling, add	.35
If with Painted Iron Legs, deduct	1.00	Brass Strainer, with Coupling, add	.75
For Sinks with Beveled Fronts, add to above list			\$2.00

## VITRIFIED BROWN GLAZED KITCHEN SINK

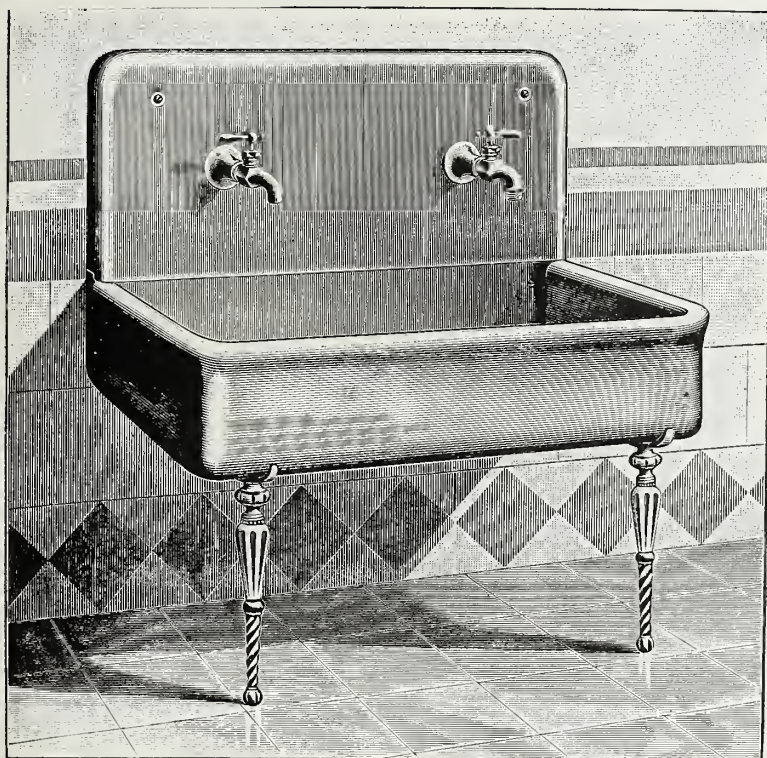


FIG. H-1396

Vitrified Brown Glazed Earthenware Roll-Rim Kitchen Sink and Back, with Bronzed Iron Legs.

	Class A	Class B
24 x 20 x 8 inches, with Bronzed Iron Legs .....	\$14.00	12.00
30 x 20 x 8 inches, with Bronzed Iron Legs .....	17.20	14.50
36 x 22 x 8 inches, with Bronzed Iron Legs .....	20.40	17.50
42 x 22 x 8 inches, with Bronzed Iron Legs .....	25.60	20.50
48 x 22 x 8 inches, with Bronzed Iron Legs .....	31.80	25.50

Class A    Class B

Add for Earthenware Legs of same Material as Sink, per pair \$7.00    5.00

Faucets, Strainers and Couplings, extra.



VITRIFIED BROWN GLAZED KITCHEN SINK

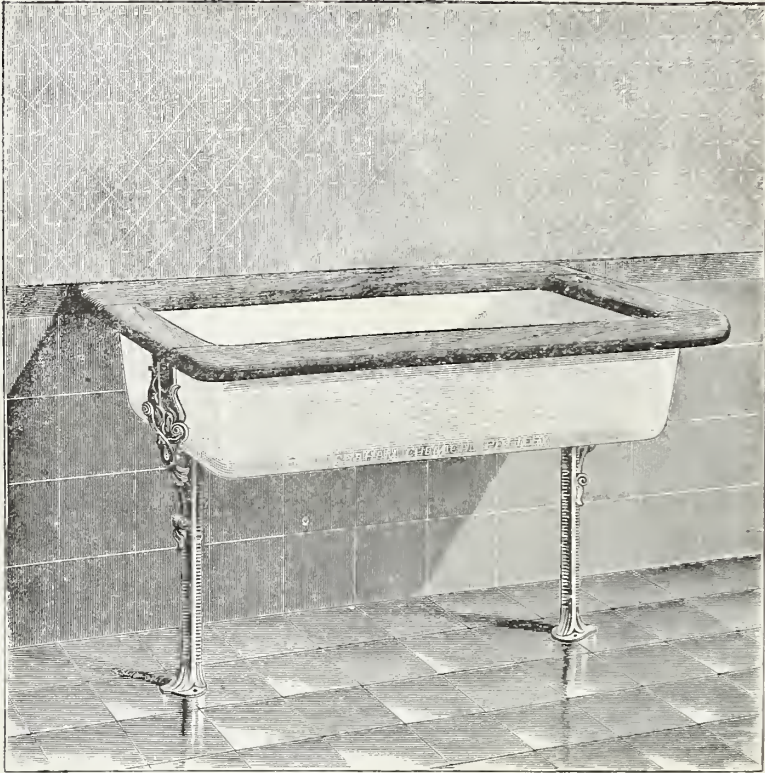


FIG. H-1397

Vitrified Brown Glazed Earthenware Flat Rim Kitchen Sink with Bronzed Iron Legs and Ash Frame.

	Class A	Class B
30 x 22 x 8 inches, with Bronzed Iron Legs and Ash Frame.....	\$12.50	\$10.50
36 x 22 x 8 inches, with Bronzed Iron Legs and Ash Frame.....	15.00	13.00
42 x 22 x 8 inches, with Bronzed Iron Legs and Ash Frame.....	18.50	15.50
48 x 24 x 9 inches, with Bronzed Iron Legs and Ash Frame.....	25.00	19.00
If with Brass Strainer and Coupling, add.....	\$2.00	



12.50

## PORCELAIN ENAMELED SINK

(INTEGRAL)

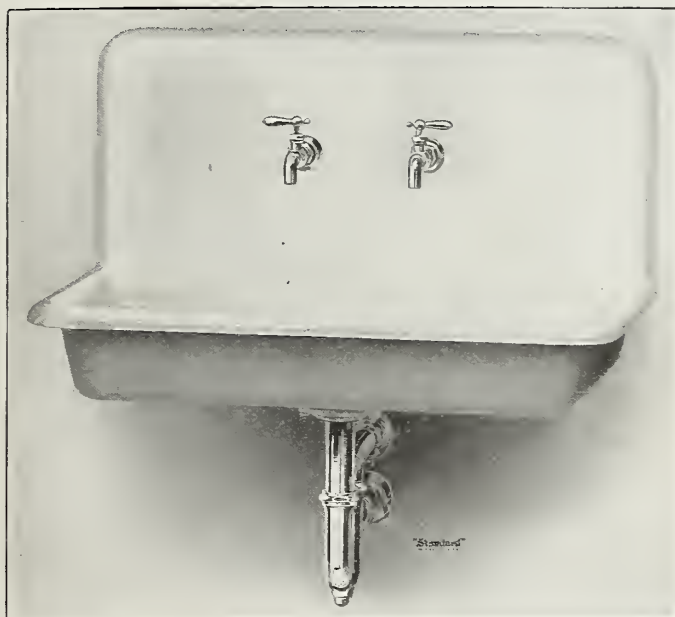


FIG. H-1398

Porcelain Enameled Roll-Rim Sink and Back (all in one piece) supported on Concealed Wall Hanger, Nickel-plated Strainer, Fuller Adjustable Flange Bibbs, Concealed Galvanized Air Chambers and "P" Trap with Waste and Vent to Wall.

Size, inches	16 x 24	18 x 24	18 x 30	18 x 36	20 x 30	20 x 36
Enameled Inside	\$19.00	19.50	21.00	22.25	21.75	23.00
Enameled all over	23.00	23.50	25.00	27.25	26.75	28.00

Size, inches	22 x 36	20 x 40	22 x 42
Enameled Inside	\$23.50	24.25	24.75
Enameled all over	28.50	29.25	29.75

If with Painted Brackets instead of Wall Hanger, add per pair	.50
If with Porcelain Enameled Brackets instead of Wall Hanger, add per pair	1.00
If with Painted Legs instead of Wall Hanger, add per pair	1.00
If with Porcelain Enameled Legs instead of Wall Hanger, add per pair	1.50
If without Vented "P" Trap, deduct	5.75
If without Bibbs, deduct per pair	2.50
If without Galvanized Air Chambers, deduct per pair	2.00

# PORCELAIN ENAMELED SINK

10.75 + R. 9.50

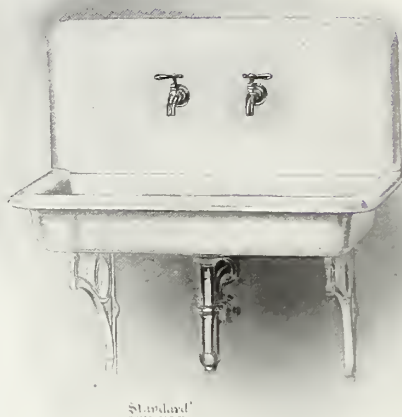


FIG. H-1399

Porcelain Enameled Roll-Rim Sink and 15 inch Porcelain Enameled Back, with Brackets, Concealed Galvanized Air Chambers, Nickel-plated Strainer, Fuller Adjustable Flange Bibbs, and "P" Trap with Waste and Vent to Wall.

16 x 24 inches .....	\$19.00
18 x 24 inches .....	19.50
18 x 30 inches .....	21.00
18 x 36 inches .....	22.25
20 x 30 inches .....	21.75
20 x 36 inches .....	23.00
20 x 40 inches .....	24.25
22 x 36 inches .....	23.50
22 x 42 inches .....	24.75
If without Vented "P" Trap, deduct .....	\$5.75
If without Bibbs, deduct per pair .....	2.50
If without Air Chambers, deduct per pair .....	2.00

## PORCELAIN ENAMELED SINK

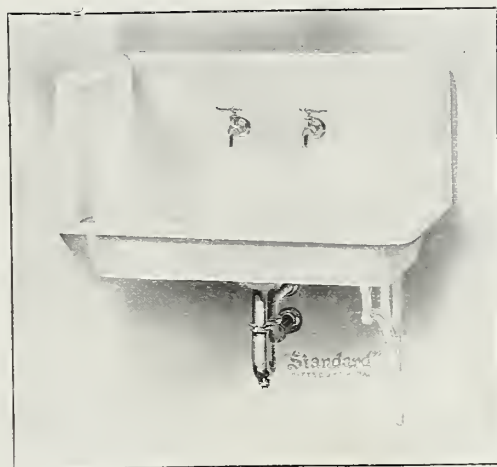


FIG. H-1400

Porcelain Enameled Roll-Rim Sink and 15 inch Porcelain Enameled Back, with Right or Left End Piece, with one Bracket, Concealed Galvanized Air Chambers, Nickel-plated Strainer, Fuller Adjustable Flange Bibbs, and "P" Trap with Waste and Vent to Wall.

16 x 24 inches .....	\$20.25
18 x 24 inches .....	21.00
18 x 30 inches .....	22.50
18 x 36 inches .....	23.75
20 x 30 inches .....	23.50
20 x 36 inches .....	24.75
20 x 40 inches .....	26.00
22 x 36 inches .....	25.50
22 x 42 inches .....	26.75
If without Vented "P" Trap, deduct .....	\$5.75
If without Bibbs, deduct per pair .....	2.50
If without Air Chambers, deduct per pair .....	2.00

PORCELAIN ENAMELED SINK

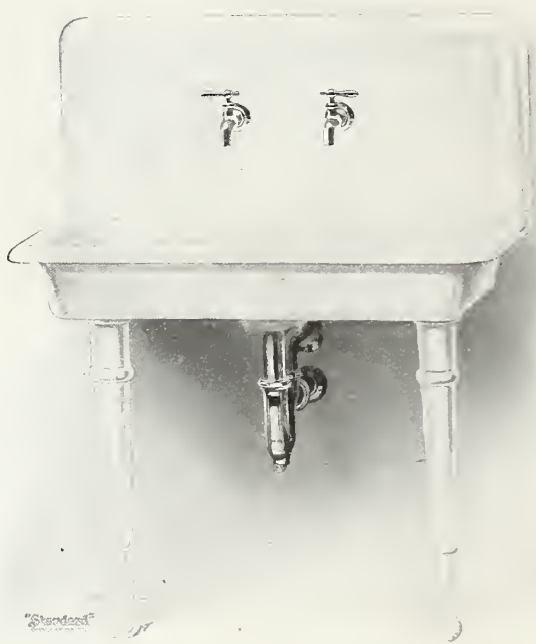


FIG. H-1401

Porcelain Enameled Roll-Rim Sink and 15 inch Porcelain Enameled Back, with Legs, Concealed Galvanized Air Chambers, Nickel-plated Strainer, Fuller Adjustable Flange Bibbs and "P" Trap with Waste and Vent to Wall.

16 x 24 inches .....	\$19.50
18 x 24 inches .....	20.00
18 x 30 inches .....	21.50
18 x 36 inches .....	22.75
20 x 30 inches .....	22.25
20 x 36 inches .....	23.50
20 x 40 inches .....	24.75
22 x 36 inches .....	24.00
22 x 42 inches .....	25.25
If without Vented "P" Trap, deduct .....	\$5.75
If without Bibbs, deduct, per pair .....	2.50
If without Air Chambers, deduct, per pair .....	2.00

## PORCELAIN ENAMELED SINK

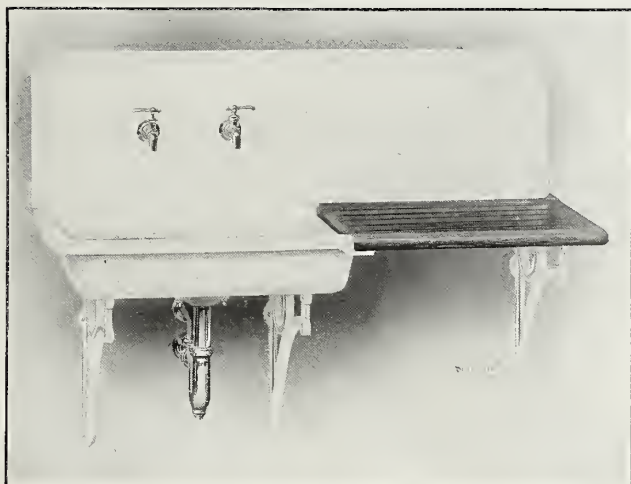


FIG. H-1402

Porcelain Enameled Roll-Rim Sink, and 15 inch Porcelain Enameled Back over Sink and Drain Board, Ash Drain Board (24 inches long), with Sink and Drain Board Brackets, Concealed Galvanized Air Chambers, Nickel-plated Strainer, Fuller Adjustable Flange Bibbs and "P" Trap with Waste and Vent to Wall.

NOTE.—Backs over 60 inches long are made in Sections, with Union Strips.

Size, inches-----	16 x 24	18 x 24	18 x 30	18 x 36	20 x 30
Each-----	\$26.00	26.65	28.15	29.40	29.10
Size, inches-----		20 x 36	20 x 40	22 x 36	22 x 42
Each-----		\$30.35	31.60	31.00	32.25
If without Vented "P" Trap, deduct-----					\$5.75
If without Bibbs, deduct per pair-----					2.50
If without Galvanized Air Chambers, deduct per pair-----					2.00

If wanted with Porcelain Enameled Drain Board instead of Wood, add to lists, Sinks 18 inches wide, \$1.75; Sinks 20 inches wide, \$2.25; Sinks 22 inches wide, \$2.75.



# PORCELAIN ENAMELED SINK

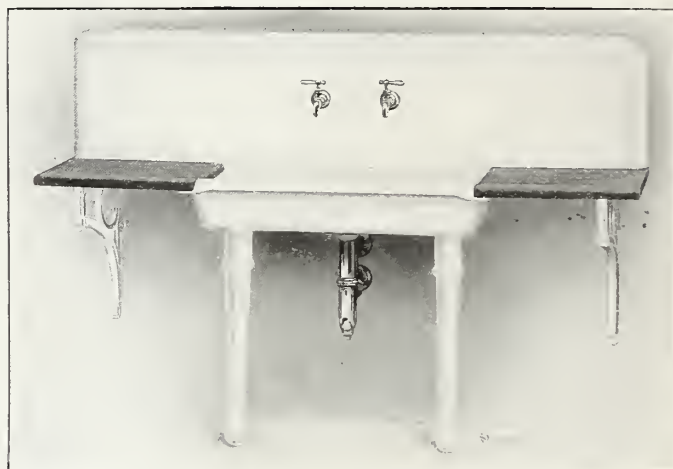


FIG. H-1403

Porcelain Enameled Roll-Rim Sink and 15 inch Porcelain Enameled Back over Sink and Drain Boards, Right and Left Ash Drain Boards (18 inches long) with Sink Legs and Drain Board Brackets, Concealed Galvanized Air Chambers, Nickel-plated Strainer, Fuller Adjustable Flange Bibbs and "P" Trap with Waste and Vent to Wall.

Backs over 60 inches long are made in sections with Union Strips; can be furnished with 24 inch Drain Boards if desired. Prices on application.

---

Size, inches.....	16 x 24	18 x 24	18 x 30	18 x 36	20 x 30	20 x 36
Each .....	\$30.00	30.80	32.30	33.55	33.45	34.70

---

Size, inches.....	20 x 40	22 x 36	22 x 42
Each .....	\$35.95	35.50	36.75

If without Vented "P" Trap, deduct .....

\$5.75

If without Bibbs, deduct per pair .....

2.50

If without Air Chambers, deduct per pair .....

2.00

---

If wanted with Porcelain Enameled Drain Boards instead of Wood, add to Lists, Sinks, 18 inches wide, \$3.50; Sinks, 20 inches wide, \$4.50; Sinks, 22 inches wide, \$5.50

## PORCELAIN ENAMELED SINK BACKS

## ROLL-RIM, DEEP PATTERN



FIG. H-1404

Porcelain Enameled Roll-Rim Deep Pattern Sink Backs. Can be used with regular Flat-Rim or Roll-Rim Sinks, and with or without Air Chambers.

Length, inches	20	22	24	28	30	32	36
15 inches high, each	\$2.50	2.75	3.00	3.50	3.75	4.00	4.50
12 inches high, each	---	---	2.50	---	3.00	---	3.75
Length, inches	40	42	48	54	58	60	
15 inches high, each	\$5.00	5.25	7.00	7.75	8.25	8.50	
12 inches high, each	4.25	4.50	---	---	---	---	

## ROLL-RIM, SHALLOW PATTERN

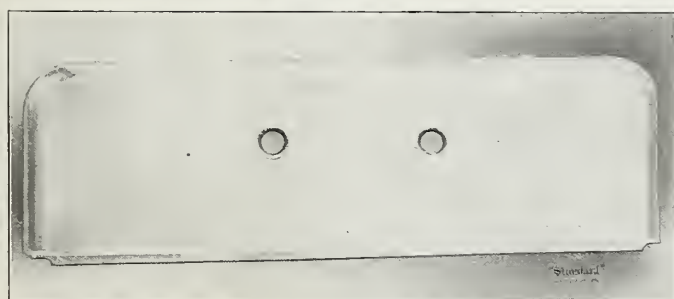


FIG. H-1405

Porcelain Enameled Roll-Rim Shallow Pattern Sink Backs.

NOTE.—Concealed Air Chambers cannot be used with this Back.

Length, inches	20	22	24	28	30	32	
12 inches high, each	\$1.80	2.00	2.20	2.60	2.80	3.00	
Length, inches	36	38	40	42	48		
12 inches high, each	\$3.40	3.60	3.80	4.00	5.00		

## DRAIN BOARDS

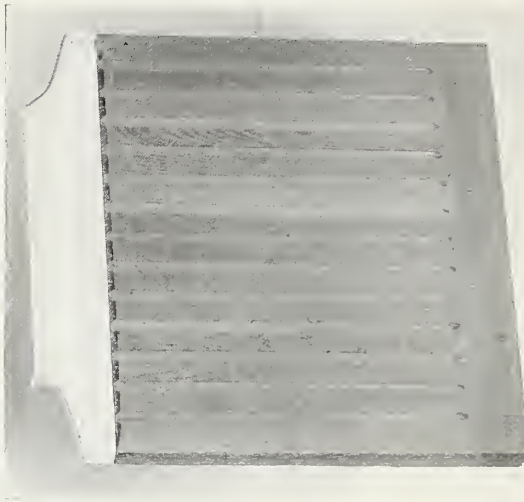


FIG. H-1406

Interchangeable Hardwood Drain Board, with Porcelain Enameled End, for attaching to Roll-Rim Sinks.

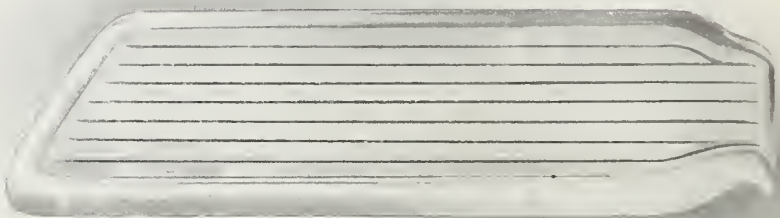
At the Sink End of the Board is an Enameled Iron Attaching Piece, made to fit over the Roll-Rim, and can be used on any Full Roll-Rim Sinks.

Width, inches.....	18
18 inches long, ea.	\$3.00
24 inches long, ea.	3.50

Width, inches.....	20
18 inches long, ea.	\$3.25
24 inches long, ea.	3.75

Width, inches.....	22
18 inches long, ea.	\$3.50
24 inches long, ea.	4.00

FIG. H-1406



Standard  
PITTSBURGH, PA.

FIG. H-1407

Porcelain Enameled Interchangeable Drain Board.

Width, inches.....	18	20	22
18 inches long, each.....	\$3.25	3.50	3.75
24 inches long, each.....	3.75	4.00	4.25

One Painted Bracket furnished with each Board for supporting same.

## SINK MATS

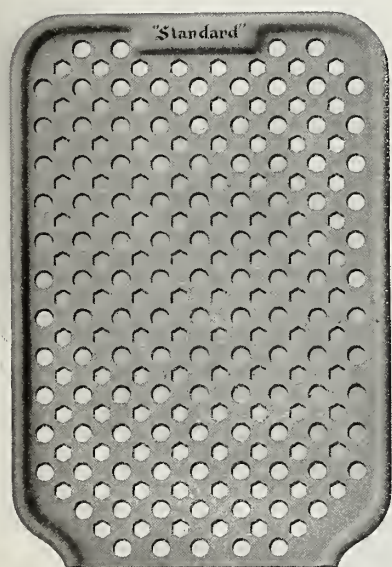


FIG. H-1408

## RUBBER

FIG. H-1408

Perforated Rubber Mat for Porcelain Enameled Drain Boards.

For Drains, measuring in width, in.	18	20	22
For Drains, 18 in. long	\$2.25	2.50	2.75
For Drains, 24 in. long	2.75	3.00	3.25

## HARDWOOD

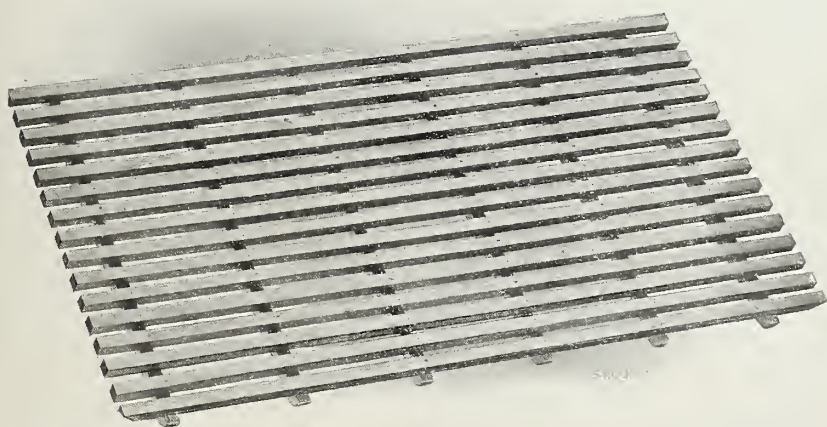


FIG. H-1409

Hardwood Mat for Roll or Flat-Rim Sinks.

Length of Sink, inches	24	30	36	40	42	48
Each	\$1.50	2.25	3.00	3.50	3.75	4.50

When ordering state width and length of Sink to be used with. Special sizes made to order.

SEAMLESS WROUGHT STEEL KITCHEN SINKS

WITH ROLL EDGES

(Drilled with Bolt Holes for Brackets.)

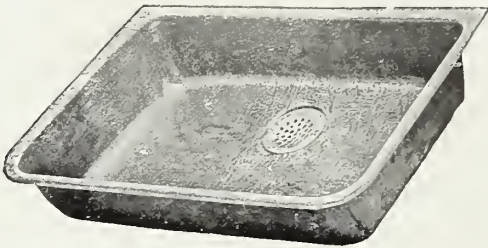


FIG. H-1410

PATENTED

CAST IRON COUPLINGS FOR LEAD PIPE



FIG. H-1411

(Order by number only, and state finish required.)

Number	01	01½	02	02½
Width, inches	16	18	18	20
Length, inches	24	24	30	20
Depth, inches	6	6	6	6
Painted Inside and Out, each	\$2.10	2.35	2.60	2.60
Galvanized Inside and Out, each	2.60	2.85	3.35	3.35
Blue Enameled Inside and Out, each	3.60	4.10	4.60	4.60
Agate Enameled (Gray) Inside and Out, each	4.60	5.10	5.60	5.60
Crystal Enameled (Light Gray) Inside and Out, each	4.85	5.35	5.85	5.85
White Enameled (Blue Outside), each	5.35	5.85	6.60	6.60

Number	03	04	05	06
Width, inches	18	20	20	20
Length, inches	36	30	36	40
Depth, inches	6	6	6	6
Painted Inside and Out, each	\$3.35	3.10	3.85	4.60
Galvanized Inside and Out, each	4.10	3.85	4.60	5.35
Blue Enameled Inside and Out, each	5.60	5.35	6.35	7.35
Agate Enameled (Gray) Inside and Out, each	6.60	6.35	7.35	8.35
Crystal Enameled (Light Gray) Inside and Out, each	6.85	6.60	7.60	8.60
White Enameled (Blue Outside), each	7.60	7.35	8.35	9.35

For Sinks with Cast Iron Couplings threaded for 1½ inch Iron Pipe, add .20  
With Improved Brass Strainer Couplings for Lead or Iron Pipe, add to

List ----- 1.00

Plug Strainers will be supplied with Sinks when ordered.



## SEAMLESS WROUGHT STEEL KITCHEN SINKS

WITH FLAT EDGES



FIG. H-1412

## CAST IRON COUPLINGS FOR LEAD PIPE



FIG. H-1413

(Order by number only, and state finish required.)

Number .....	1	1½	2	2½
Width, inches .....	16	18	18	20
Length, inches .....	24	24	30	20
Depth, inches .....	6	6	6	6
Painted Inside and Out, each .....	\$2.00	2.25	2.50	2.50
Galvanized Inside and Out, each .....	2.50	2.75	3.25	3.25
Blue Enameled Inside and Out, each .....	3.50	4.00	4.50	4.50
Agate Enameled (Gray) Inside and Out, each .....	4.50	5.00	5.50	5.50
Crystal Enameled (Light Gray) Inside and Out, each .....	4.75	5.25	5.75	5.75
White Enameled (Blue Outside), each .....	5.25	5.75	6.50	6.50
Number .....	3	4	5	6
Width, inches .....	18	20	20	20
Length, inches .....	36	30	36	40
Depth, inches .....	6	6	6	6
Painted Inside and Out, each .....	\$3.25	3.00	3.75	4.50
Galvanized Inside and Out, each .....	4.00	3.75	4.50	5.25
Blue Enameled Inside and Out, each .....	5.50	5.25	6.25	7.25
Agate Enameled (Gray) Inside and Outside, each .....	6.50	6.25	7.25	8.25
Crystal Enameled (Light Gray) Inside and Out, each .....	6.75	6.50	7.50	8.50
White Enameled (Blue Outside), each .....	7.50	7.25	8.25	9.25

For Sinks with Cast Iron Couplings threaded for 1½ inch Iron Pipe, add .20

With Improved Brass Strainer Couplings for Lead or Iron Pipe, add to

List ..... 1.00

Plug Strainers will be supplied with Sinks when ordered.

## SEAMLESS WROUGHT STEEL KITCHEN SINKS

WITH ROLL EDGES

(Drilled with Bolt Holes for Brackets.)

FIG. H-1414  
Patented.AND DETACHABLE [COMBINATION] OVERFLOW,  
OVERFLOW PROTECTOR, AND PLUG OUTLET.

FOR LEAD PIPE

FOR IRON PIPE

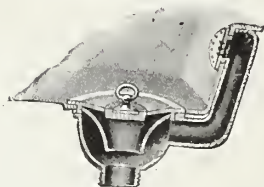


FIG. H-1415

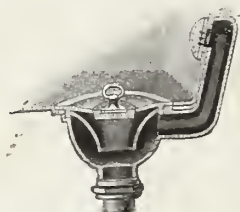


FIG. H-1416

Couplings for Lead Pipe always sent unless ordered otherwise.  
(Order by number only, and state finish required.)

Number.....	0100 <sup>3</sup> / <sub>4</sub>	0150 <sup>3</sup> / <sub>4</sub>	0200 <sup>3</sup> / <sub>4</sub>	0250 <sup>3</sup> / <sub>4</sub>
Width, inches.....	16	18	18	20
Length, inches.....	24	24	30	20
Depth, inches.....	6	6	6	6
Painted Inside and Out, each.....	\$5.60	5.85	6.10	6.10
Galvanized Inside and Out, each.....	6.10	6.35	6.85	6.85
Blue Enameled Inside and Out, each.....	7.10	7.60	8.10	8.10
Agate Enameled (Gray) Inside and Out, each.....	8.10	8.60	9.10	9.10
Crystal Enameled (Light Gray) Inside and Out, each.....	8.35	8.85	9.35	9.35
White Enameled (Blue Outside), each.....	8.85	9.35	10.10	10.10
Number.....	0300 <sup>3</sup> / <sub>4</sub>	0400 <sup>3</sup> / <sub>4</sub>	0500 <sup>3</sup> / <sub>4</sub>	0600 <sup>3</sup> / <sub>4</sub>
Width, inches.....	18	20	20	20
Length, inches.....	36	30	36	40
Depth, inches.....	6	6	6	6
Painted Inside and Out, each.....	\$6.85	6.60	7.35	8.10
Galvanized Inside and Out, each.....	7.60	7.35	8.10	8.85
Blue Enameled Inside and Out, each.....	9.10	8.85	9.85	10.85
Agate Enameled (Gray) Inside and Out, each.....	10.10	9.85	10.85	11.85
Crystal Enameled (Light Gray) Inside and Out, each.....	10.35	10.10	11.10	12.10
White Enameled (Blue Outside), each.....	11.10	10.85	11.85	12.85

## ROLL-RIM STEEL SINK BACK



FIG. H-1417

(Order by number only, and state finish required.)

Number	100	200	300
Width, inches	24	30	36
Painted, each	\$1.90	2.00.	2.25
Galvanized, each	2.50	2.75	3.25
Blue Enameled, each	3.50	4.50	5.50
Agate Enameled (Gray), each	3.75	4.75	5.75
Crystal Enameled (Light Gray), each	4.00	5.00	6.00
White Enameled, each	4.50	5.50	6.50

Backs with two holes always supplied unless otherwise ordered.

## SEAMLESS WROUGHT STEEL FLAT SINK BACK

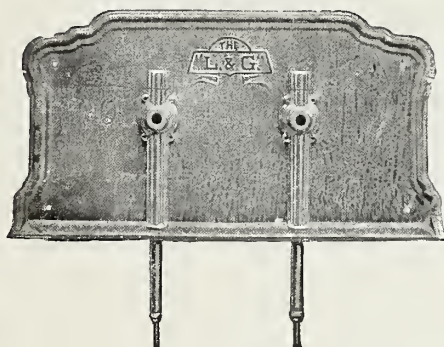
WITH AIR CHAMBERS THREADED FOR  $\frac{3}{4}$  INCH BIBBS

FIG. H-1418

(Order by number only, and state finish required.)

Air Chambers are made of Malleable and Wrought Iron, covered with Ornamental White Metal, as illustrated above.

Number	Without Air Chambers.				With Two Air Chambers.			
	0	1	2	3	8	10	20	30
Width, inches	20	24	30	36	20	24	30	36
Painted, each	\$1.20	1.30	1.60	2.00	5.20	5.30	5.60	6.00
Galvanized, each	1.60	1.80	2.10	2.50	5.60	5.80	6.10	6.50
Blue Enameled, each	1.90	2.20	2.60	3.20	5.80	6.20	6.60	7.20
Agate Enameled (Gray), each	2.00	2.30	2.70	3.30	6.00	6.30	6.70	7.30
Crystal Enameled (Light Gray), each	2.20	2.50	2.90	3.50	6.20	6.50	6.90	7.50
White Enameled, each	2.50	3.00	3.50	4.25	6.50	7.00	7.75	8.50

Nickel-plated Air Chambers, List, 60 cents each extra.

## FLAT-RIM CAST IRON KITCHEN SINKS



FIG. H-1419

Size, inches.	Painted.	Enam.	Galv'd.	Size, inches.	Painted.	Enam.	Galv'd.
12 x 12.....	\$1.00	2.15	2.20	20 x 36.....	\$3.70	5.25	7.75
12 x 16.....	1.10	2.25	2.30	20 x 38.....	3.80	5.50	8.00
12 x 18.....	1.25	2.40	2.60	22 x 36.....	3.80	5.50	7.75
12 x 20.....	1.40	2.65	3.10	<b>LONG</b>			
14 x 14.....	1.35	2.50	2.60	20 x 40.....	4.00	5.75	8.75
14 x 20.....	1.50	3.00	3.20	20 x 42.....	4.25	6.00	9.00
14 x 22.....	1.60	3.10	3.30	20 x 48.....	5.25	6.75	11.50
14 x 24.....	1.70	3.15	3.75	22 x 42.....	4.75	6.25	9.00
15 x 23.....	1.70	3.15	---	23 x 42.....	5.00	6.50	9.20
15 x 27.....	2.00	3.65	4.25	23 x 48.....	5.75	7.50	12.25
16 x 16.....	1.50	2.65	3.25	24 x 48.....	6.00	7.75	12.25
16 x 20.....	1.70	3.15	3.50	24 x 50.....	7.50	9.00	16.00
16 x 24.....	1.90	3.25	4.00	<b>EXTRA LONG</b>			
16 x 28.....	2.10	3.75	4.50	20 x 60.....	10.00	25.00	21.00
16 x 30.....	2.25	3.90	4.75	24 x 60.....	12.00	30.00	25.00
17 x 28.....	2.20	3.75	4.50	22 x 62.....	12.00	30.00	---
18 x 24.....	2.10	3.50	4.30	20 x 72.....	13.00	33.00	26.00
18 x 30.....	2.50	4.25	5.10	24 x 72.....	15.00	35.00	31.00
18 x 32.....	2.75	4.65	6.25	24 x 84.....	17.00	---	---
18 x 36.....	3.25	4.75	6.50	24 x 96.....	19.00	---	56.00
20 x 24.....	2.40	3.75	5.00	24 x 108.....	21.00	---	---
20 x 28.....	2.70	4.00	5.50	24 x 120.....	24.00	---	72.00
20 x 30.....	3.00	4.50	6.25				

If with Overflow, add each ..... \$1.50

If with Overflow and Plug Strainer, add each ..... 2.00

## KITCHEN SINKS



FIG. H-1420

FIG. H-1420

Porcelain Enameled Round Corner Kitchen Sinks with Nickel-plated Strainer.

NOTE.—Sinks are furnished with Enameled Rims.

	Painted.	Enameled.
16 x 24 inches --	\$2.15	3.50
16 x 30 inches --	2.50	4.15
18 x 30 inches --	2.75	4.50
18 x 36 inches --	3.50	5.00
20 x 30 inches --	3.25	4.75

FIG. H-1421

Porcelain Enameled Half Circle Sinks, with Nickel-plated Strainer.

Depth of Sinks, 6 inches.

	Painted.	Enam.
14 x 24 inches --	\$1.75	3.45
14 x 27 inches --	2.00	4.00
15 x 27 inches --	2.15	4.15
16 x 27 inches --	2.25	4.25
16 x 29 inches --	2.50	4.55
17 x 31 inches --	2.75	5.15

CAST IRON HALF CIRCLE SINK



FIG. H-1421

CAST IRON CORNER SINK



FIG. H-1422

FIG. H-1422

Porcelain Enameled Corner Sinks, with Nickel-plated Strainer.

Depth of Sinks, 6 inches.

	Painted.	Enam.
17 x 24 inches	\$1.85	3.70
17 x 25 inches	2.10	4.25
20 x 27 inches	2.35	4.50
20 x 29 inches	2.60	4.80
22 x 31 inches	3.00	5.60

Above Sinks can be furnished in Galvanized Finish if desired. Prices on application.



## CAST IRON SLOP SINKS

### REGULAR—WITH 2 INCH OUTLET AT END

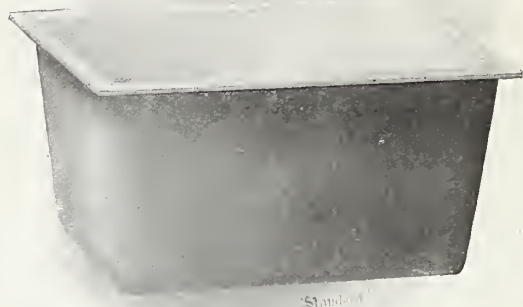


FIG. H-1423

	Painted.	Enam. Inside.
16 x 16 x 10 inches	\$2.70	4.50
16 x 16 x 12 inches	3.25	4.80
20 x 14 x 12 inches	3.50	5.10
20 x 16 x 12 inches	4.00	6.00
22 x 20 x 12 inches	4.50	6.90
23 x 15 x 15 inches	4.25	6.60
24 x 18 x 12 inches	4.50	6.60
24 x 20 x 12 inches	5.00	7.25
30 x 20 x 12 inches	8.00	10.50
36 x 20 x 12 inches	10.00	12.75
36 x 21 x 16 inches	14.00	17.75
48 x 20 x 12 inches	16.00	19.00
48 x 20 x 17 inches	20.00	24.00
72 x 20 x 12 inches	24.00	33.25
Add for Overflow	----	\$3.00
Add for Overflow and Plug Strainer	-----	3.50

FIG. H-1423

### WITH ROUND CORNERS FOUR INCH OUTLET IN CENTER

FIG. H-1424

	Painted.	Enameled. Inside.
16 x 16 x 10 inches.	\$3.25	5.00
14 x 20 x 12 inches.	4.00	5.70
20 x 22 x 12 inches.	5.00	7.20
20 x 24 x 12 inches.	5.50	8.10
20 x 30 x 12 inches.	8.00	10.80
20 x 36 x 12 inches.	10.00	12.70



These Sinks can be furnished in Galvanized Finish, if desired.

Prices on application.

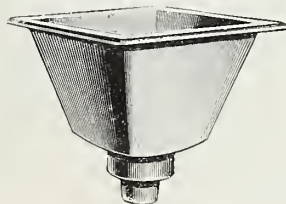
FIG. H-1424

**CORNER SLOP SINK****FIG. H-1425**

Porcelain Enameled Flat Rim Corner Slop Sink, with Nickel-plated Strainer.

Size, inches	18 x 18 x 12	19 x 19 x 12
As described, Enameled Inside, each	\$7.00	7.50
Painted Inside and Out, each	5.00	5.25

[ Above Sinks can be furnished in Galvanized Finish if desired. Prices on application.

**SLOP HOPPER  
WITH BELL TRAP****FIG. H-1426**

With 2 inch Outlet. When so ordered can furnish with Outlet to fit Hub of 4 inch Soil Pipe, but when made in this way have no Bell Trap.

Size, inches	12 x 12 x 6	15 x 15 x 12	18 x 18 x 12
Plain, each	\$1.50	2.50	3.00
Galvanized, each	3.00	5.00	6.00

**CELLAR TRAP****FIG. H-1427**

No. 1— 9 inches Square, $2\frac{1}{4}$ inches deep, each	.75
No. 2—12 inches Square, $2\frac{1}{4}$ inches deep, each	1.00

HYDRANT CESSPOOL

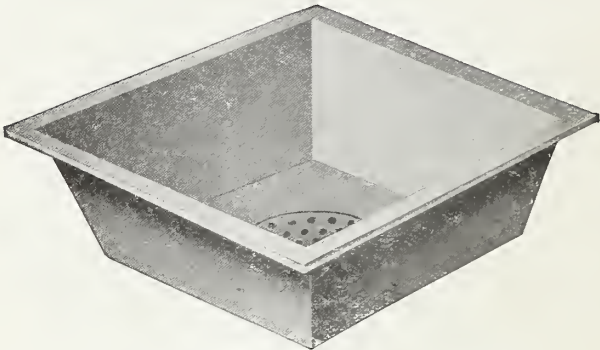


FIG. H-1428

FIG. H-1428

Size.	Each.
12x12x6 in. deep--	\$1.00
14x14x6 in. deep--	1.15
16x16x6 in. deep--	1.30

HYDRANT CESSPOOL  
WITH BELL TRAP

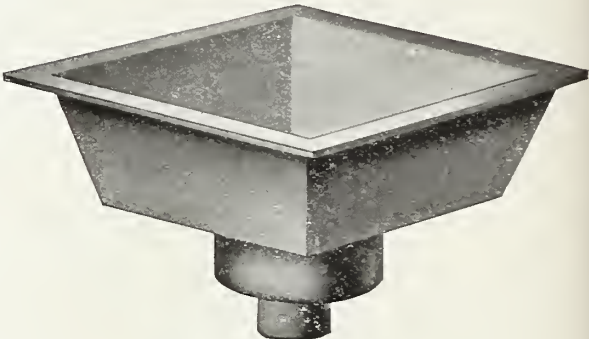


FIG. H-1429

FIG. H-1429

Size.	Each.
12x12x6 in. deep--	\$1.50
14x14x6 in. deep--	1.75
16x16x6 in. deep--	2.00

STABLE CESSPOOL  
WITH BELL TRAP



FIG. H-1430

FIG. H-1430

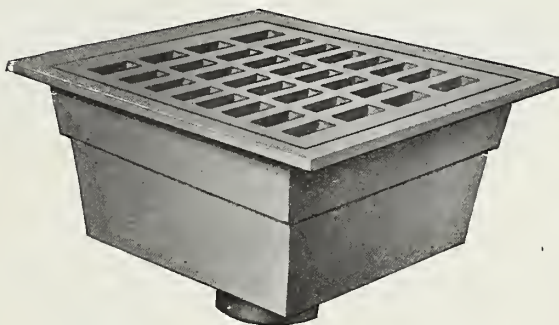
6 x 6 inch Medium, 2 inch outlet, each-----	.75
6 x 6 inch Heavy, 2 inch outlet, each-----	\$1.00
9 x 9 inch Medium, 3 or 4 inch outlet, each-----	1.00
9 x 9 inch Heavy, 3 or 4 inch outlet, each-----	1.50
13 x 13 inch Medium, 3 or 4 inch outlet, each-----	2.00
13 x 13 inch Heavy, 3 or 4 inch outlet, each-----	3.00

**CESSPOOL****WITH BELL TRAP AND HINGED STRAINER****FIG. H-1431****FIG. H-1431**

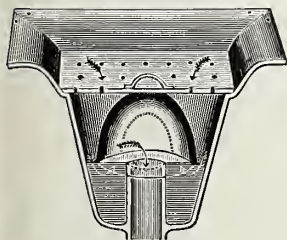
Size.	Standard.	Extra Heavy.
6 x 6 in. with 2 in. outlet	\$1.00	1.50
8 x 8 in. with 3 in. outlet	1.25	1.75
9 x 9 in. with 3 in. outlet	1.35	1.85
10 x 10 in. with 4 in. outlet	2.00	3.00
12 x 12 in. with 4 in. outlet	2.50	3.50
13 x 13 in. with 4 in. outlet	3.00	4.25

**CAST BRASS**

	Brass.	Nickel-plated.
6 x 6 inches	\$3.50	4.25
9 x 9 inches	8.00	9.75
13 x 13 inches	15.00	17.00

**LARGE CESSPOOL****WITH BELL TRAP AND GRATING****FIG. H-1432****FIG. H-1432**

Size.	Painted.	Galv.
10x10x10 in. deep	\$3.50	7.00
12x12x10 in. deep	3.75	7.50
12x15x10 in. deep	4.00	8.00
14x14x10 in. deep	4.00	8.00
15x15x10 in. deep	4.25	9.00
16x16x10 in. deep	4.50	10.00

**SEWER TRAP****FIG. H-1433****FIG. H-1433**

No. 1—16 x 16 x 10 inches deep	\$2.50
No. 2—20 x 20 x 12 inches deep	4.00

## SINK FITTINGS

## SINK BACK

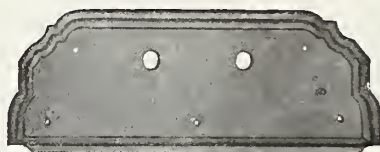


FIG. H-1434

Size, inches	Plain	Galvanized
14	\$1.05	\$1.75
16	1.10	1.90
18	1.20	2.10
20	1.25	2.25
22	1.35	2.50
24	1.50	2.80
25	1.55	2.90
27	1.70	3.25
28	1.80	3.50
30	2.00	4.00
32	2.25	4.25
34	2.50	4.75
36	2.75	5.00
38	3.00	5.50
41	3.50	6.00
42	3.75	6.50
48	4.25	7.00

For Sink Backs with Air Chambers, add to List \$1.50 for each Air Chamber. Plain, and \$2.00 Galvanized, and 50 cents for each Pipe and Coupling.

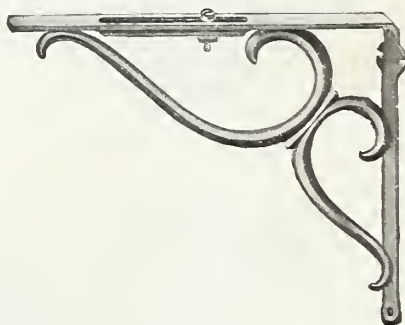
SINK BRACKET  
ADJUSTABLE

FIG. H-1435

	Plain.	Galvanized.
No. 1—For Sinks up to 14 inches wide	.60	1.00
No. 2—For Sinks up to 18 inches wide	.75	1.25
No. 3—For Sinks up to 24 inches wide	1.25	2.00

## SINK LEG



FIG. H-1436

Plain, each	.50
Galvanized, each	1.00



## SINK FITTINGS

## ALBERENE WASH TRAY LEG



FIG. H-1437

	Plain. Galvanized.	
Small—14 $\frac{3}{4}$ inches High x 14 $\frac{1}{2}$ inches Wide	.60	1.25
Large—15 inches High x 18 inches Wide	.70	1.40



FIG. H-1438

	Plain. Galvanized.	
Small—14 inches High x 15 inches Wide	.70	1.40
Medium—14 inches High x 17 $\frac{1}{2}$ inches Wide	1.00	2.00
Large—16 inches High x 16 $\frac{1}{2}$ inches Wide	1.25	2.50

## SINK BOLT



FIG. H-1439

## SINK COUPLING—LEAD PIPE



FIG. H-1440

## SINK COUPLING—IRON PIPE



FIG. H-1441

Iron, per doz	.40
Brass, per doz	1.00
N. P., per doz	1.25

Painted, per doz	\$1.50
Galvanized, per doz	2.00

Painted, per doz	\$9.00
Galvanized, per doz	10.80

PLUG SINK STRAINER  
WITH RUBBER STOPPER

## OPEN SINK STRAINER

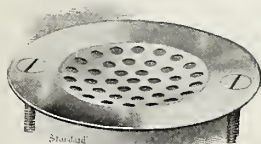


FIG. H-1442

Painted Iron, per doz	\$1.25
Enameled Iron, per doz	2.25
Nickel-plated Brass, per doz	4.00
If furnished with Bolts and Nuts, add per doz	.50

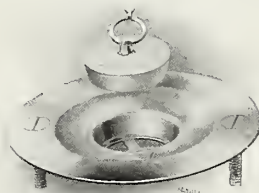


FIG. H-1443

Painted Iron, per doz	\$3.50
Enameled Iron, per doz	5.00
Polished Brass, per doz	7.00
Nickel-plated Brass, per doz	8.00
If furnished with Bolts and Nuts, add per doz	.50

BOILER STANDS

PLAIN



FIG. H-1444

GRAY'S



FIG. H-1445

FIG. H-1444—PLAIN BOILER STANDS

	Plain.	Galv.
12 inch for 18, 21, 24, 27, 30 and 36 gallon Boilers, each	\$1.25	\$2.50
13 inch for 35 gallon Boiler, each	1.30	2.60
14 inch for 24, 28, 32, 36, 40 and 48 gallon Boilers, each	1.40	2.70
16 inch for 42, 47, 52 and 63 gallon Boilers, each	1.75	3.25
18 inch for 53, 66 and 79 gallon Boilers, each	2.00	3.80
20 inch for 82 and 98 gallon Boilers, each	2.25	4.50
22 inch for 100 and 120 gallon Boilers, each	2.75	5.00
24 inch for 120, 144, 168 and 192 gallon Boilers, each	3.50	6.50

FIG. H-1445—GRAY'S BOILER STANDS

12 inch for 18, 21, 24, 27, 30 and 36 gallon Boilers, each	\$1.00
13 inch for 35 gallon Boiler, each	1.10
14 inch for 24, 28, 32, 36, 40 and 48 gallon Boilers, each	1.20
16 inch for 42, 47, 52 and 63 gallon Boilers, each	1.30
18 inch for 53, 66 and 79 gallon Boilers, each	1.40

Galvanized Iron double the above List.

FIG. H-1446

Wrought Iron Brackets for Horizontal Boilers and Tanks.



FIG. H-1446

Size, inches.	Black, per pair.	Galvanized, per pair.
10	\$6.00	\$6.50
12	6.00	6.50
14	6.00	6.50
16	6.50	7.50
18	8.00	9.00
20	8.00	9.00
22	9.50	11.00
24	9.50	11.00

## BROWN'S SEAMLESS DRAWN COPPER RANGE BOILER



FIG. H-1447

Regular Pressure, tested to 200 pounds internal pressure to square inch, and are recommended for a working pressure of 150 pounds.

Extra Heavy Pressure, tested to 300 pounds internal pressure to square inch, and are recommended for a working pressure of 200 pounds.

All Couplings are for Iron Pipe connections, unless ordered otherwise. Couplings threaded for  $\frac{1}{2}$  inch Iron Pipe furnished if desired; also  $\frac{3}{4}$  inch and  $\frac{7}{8}$  inch Brass Pipe Fine Thread Fittings. *We warrant each and every Boiler to have been tested before leaving our works.*

All Boilers are made of the BEST quality of COPPER, are thoroughly tinned on the inside, and will be furnished with either two or three couplings on top.

NOTE.—Each Boiler is plainly marked on the band.

Guaranteed not to collapse.

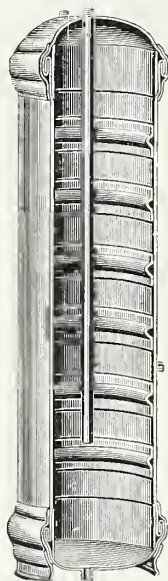


Sectional View.

Capacity, Gallons.	Height, Inches.	Diameter, Inches.	Price, Regular Pressure.	Price, Extra Heavy Pressure.	Boxing.
30	60	12	\$37.50	\$50.00	\$1.00
35	53	14	45.00	56.00	1.00
40	60	14	50.00	65.00	1.25
45	68	14	56.00	70.00	1.25
50	60	16	62.50	82.50	1.50
60	70	16	75.00	100.00	1.50
80	96	16	100.00	130.00	2.00
60	44	20	115.00	145.00	2.00
80	59	20	140.00	175.00	2.00
100	76	20	160.00	190.00	2.75
100	60	24	190.00	220.00	2.75
120	65 $\frac{1}{2}$	24	195.00	225.00	3.00
125	69	24	200.00	230.00	3.50
150	78 $\frac{1}{2}$	24	225.00	255.00	4.00
180	92 $\frac{1}{2}$	24	265.00	295.00	4.00
200	103	24	300.00	330.00	4.00
250	129	24	425.00	-----	6.00

**"WILHELMI"****COPPER RANGE BOILERS****THE "WILHELMI" COPPER RANGE BOILER**

Heavily tinned on the inside and re-inforced with corrugated ribs of brass which render collapse an absolute impossibility.

**FIG. H-1448**

Capacity, Gallons.	Height, Inches.	Deameter, Inches.	Price, 250 lb. test.	Boxing, net.
30	60	12	\$37.50	\$1.00
35	60	13	45.00	1.00
40	60	14	50.00	1.00
50	60	16	62.50	1.00
60	60	18	75.00	2.00
80	60	20	100.00	2.00
100	62	22	125.00	2.00
120	73	22	155.00	3.00
125	76	22	165.00	3.00
125	69	24	175.00	3.00
150	78½	24	205.00	3.00
200	87	26	285.00	4.00
225	98	26	330.00	4.00
225	74	30	340.00	5.00
250	108	26	380.00	5.00
250	82	30	400.00	5.00
300	98	30	450.00	5.00

The 250 lb. test boiler is guaranteed to stand a working pressure of 150 lbs. and against collapse.

NOTE.—Guarantee does not hold good where a check valve is used on supply pipe.

All couplings will be furnished for lead pipe unless otherwise ordered.

**THE "MODERN" COPPER PRESSURE BOILER**

Capacity, Gallons.	Height, Inches.	Diameter, Inches.	Price List.	Boxing, net.
30	60	12	\$37.50	---
35	60	13	45.00	---
40	60	14	50.00	---
50	60	16	62.50	---
60	60	18	75.00	---
80	60	20	100.00	---
100	62	22	125.00	---
120	73	22	155.00	\$3.00
125	76	22	165.00	3.00
125	69	24	175.00	3.00
150	78½	24	205.00	3.00

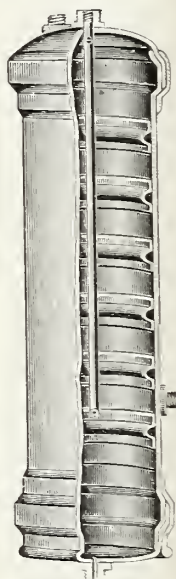
The "Modern" Boiler is guaranteed to a working pressure of 100 lbs. and against collapse. It is tested to 200 lbs.

We make no charge for boxing or couplings for boilers up to 100 gallons capacity. Boxing charges same as on "Wilhelmi" for all sizes of greater capacity than 100 gallons.

NOTE.—Guarantee does not hold good where a check valve is used on supply pipe.

All couplings will be furnished for ¾ lead pipe unless ordered otherwise.

Boilers fitted with steam coils made to order. Prices on application.

**"MODERN"****FIG. H-1449**



## COPPER RANGE BOILER

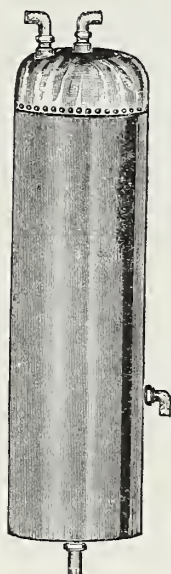


FIG. H-1450

## ROUND HEAD

Capacity, gallons.....	30	35	40	45	50
Size, inches.....	12x60	13x60	14x60	15x60	15x66
Test, 50 pounds.....	\$24.00	27.00	32.00	37.00	41.00
Test, 70 pounds.....	26.00	30.00	34.00	39.00	43.00
Test, 150 pounds.....	30.00	35.00	40.00	45.00	50.00
Test, 200 pounds.....	30.00	35.00	40.00	45.00	50.00
Boxing, net.....	1.25	1.25	1.50	1.50	1.75

Capacity, gallons.....	60	70	80	90	100
Size, inches.....	16x72	17x72	18x72	20x66	20x72
Test, 50 pounds.....	\$52.00	59.00	68.00	80.00	88.00
Test, 70 pounds.....	55.00	63.00	72.00	84.00	92.00
Test, 150 pounds.....	60.00	70.00	80.00	90.00	100.00
Test, 200 pounds.....	60.00	70.00	80.00	90.00	100.00
Boxing, net.....	2.00	2.00	2.50	2.50	3.00

## FLAT HEAD

Capacity, gallons.....	30	35	40	45	50
Size, inches.....	12x60	13x60	14x60	15x60	15x66
Test, 50 pounds.....	\$22.00	24.00	28.00	35.00	38.00
Test, 70 pounds.....	24.00	27.00	32.00	37.00	41.00

Capacity, gallons.....	60	70	80	90	100
Size, inches.....	16x72	17x72	18x72	20x66	20x72
Test, 50 pounds.....	\$18.00	56.00	63.00	75.00	84.00
Test, 70 pounds.....	52.00	59.00	68.00	80.00	88.00

Double Boiler, 70 pounds Test.....	\$85.00	-----	100.00	-----	150.00
------------------------------------	---------	-------	--------	-------	--------

$\frac{3}{4}$  inch Lead Pipe Couplings for 80 gallons and smaller.

1 inch Lead Pipe Couplings for sizes larger than 80 gallons.



## THE GRAVES BOILER



FIG. H-1451

Extra Thick Iron.

Extra Galvanized Inside and Outside.

Every Boiler examined Inside by Electric Light.

The Graves Boiler is Enamelled Outside with a Light Blue, Heat-resisting Enamel.

Packed and boxed for shipping.

Will stand 300 pounds Pressure and is warranted for six years.

Every Boiler bears a Brass Plate with this Guarantee.

Capacity, 18 gallons, size 3	feet by 12 inches, each	\$24.50
Capacity, 21 gallons, size 3½	feet by 12 inches, each	25.50
Capacity, 24 gallons, size 4	feet by 12 inches, each	25.75
Capacity, 27 gallons, size 4½	feet by 12 inches, each	28.50
Capacity, 30 gallons, size 5	feet by 12 inches, each	29.00
Capacity, 36 gallons, size 6	feet by 12 inches, each	34.50
Capacity, 35 gallons, size 5	feet by 13 inches, each	31.00
Capacity, 24 gallons, size 3	feet by 14 inches, each	29.00
Capacity, 28 gallons, size 3½	feet by 14 inches, each	30.25
Capacity, 32 gallons, size 4	feet by 14 inches, each	31.00
Capacity, 36 gallons, size 4½	feet by 14 inches, each	31.50
Capacity, 40 gallons, size 5	feet by 14 inches, each	34.00
Capacity, 48 gallons, size 6	feet by 14 inches, each	40.00
Capacity, 42 gallons, size 4	feet by 16 inches, each	36.00
Capacity, 47 gallons, size 4½	feet by 16 inches, each	40.00
Capacity, 52 gallons, size 5	feet by 16 inches, each	41.00
Capacity, 63 gallons, size 6	feet by 16 inches, each	48.00
Capacity, 53 gallons, size 4	feet by 18 inches, each	41.50
Capacity, 66 gallons, size 5	feet by 18 inches, each	48.00
Capacity, 79 gallons, size 6	feet by 18 inches, each	54.00
Capacity, 82 gallons, size 5	feet by 20 inches, each	55.50
Capacity, 98 gallons, size 6	feet by 20 inches, each	71.50
Capacity, 100 gallons, size 5	feet by 22 inches, each	73.50
Capacity, 120 gallons, size 6	feet by 22 inches, each	84.00
Capacity, 120 gallons, size 5	feet by 24 inches, each	82.50
Capacity, 144 gallons, size 6	feet by 24 inches, each	113.00
Capacity, 168 gallons, size 7	feet by 24 inches, each	130.00
Capacity, 192 gallons, size 8	feet by 24 inches, each	142.00

## GALVANIZED RANGE BOILERS

Capacity.	Size.	Each.
18 gallons---	3 feet x 12 inches ---	\$14.50
21 gallons---	3½ feet x 12 inches --	15.50
24 gallons---	4 feet x 12 inches ---	15.75
24 gallons---	3 feet x 14 inches ---	19.00
27 gallons---	4½ feet x 12 inches ---	18.50
28 gallons---	3½ feet x 14 inches ---	20.25
30 gallons---	5 feet x 12 inches ---	19.00
32 gallons---	4 feet x 14 inches ---	21.00
35 gallons---	5 feet x 13 inches ---	21.00
36 gallons---	6 feet x 12 inches ---	24.50
36 gallons---	4½ feet x 14 inches ---	21.50
40 gallons---	5 feet x 14 inches ---	24.00
42 gallons---	4 feet x 16 inches ---	26.00
47 gallons---	4½ feet x 16 inches ---	30.00
48 gallons---	6 feet x 14 inches ---	30.00
52 gallons---	5 feet x 16 inches ---	31.00
53 gallons---	4 feet x 18 inches ---	31.50
63 gallons---	6 feet x 16 inches ---	38.00
66 gallons---	5 feet x 18 inches ---	38.00
79 gallons---	6 feet x 18 inches ---	44.00
82 gallons---	5 feet x 20 inches ---	45.50
98 gallons---	6 feet x 20 inches ---	61.50
100 gallons---	5 feet x 22 inches ---	63.50
120 gallons---	6 feet x 22 inches ---	74.00
120 gallons---	5 feet x 24 inches ---	72.50
144 gallons---	6 feet x 24 inches ---	103.00
168 gallons---	7 feet x 24 inches ---	120.00
192 gallons---	8 feet x 24 inches ---	132.00
240 gallons---	10 feet x 24 inches ---	160.00

ELECTRIC  
WELD

FIG. H-1452

RIVETED

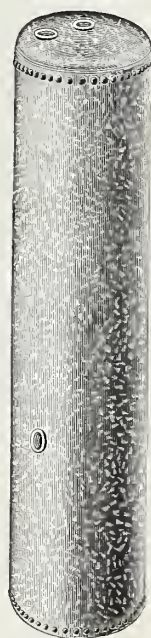


FIG. H-1453

## GALVANIZED EXTRA HEAVY IRON BOILERS



FIG. H-1454

WITH TINNED COPPER TUBE COILS INSIDE

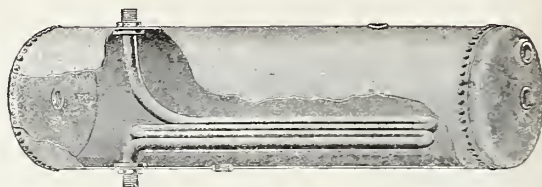


FIG. H-1455



FIG. H-1456

Capacity, Gals.	Dimensions.	Black, Each.	Galva- nized, Each.	Capacity, Gals.	Dimensions.	Black, Each.	Galva- nized, Each.
18	3 ft. x 12 in.	\$28.00	\$28.00	265	5 ft. x 36 in.	\$170.00	\$212.00
24	4 ft. x 12 in.	30.00	30.00	290	5½ ft. x 36 in.	185.00	228.00
30	5 ft. x 12 in.	32.00	32.00	315	6 ft. x 36 in.	200.00	244.00
35	5 ft. x 13 in.	34.00	34.00	360	7 ft. x 36 in.	220.00	276.00
40	5 ft. x 14 in.	36.00	36.00	425	8 ft. x 36 in.	240.00	312.00
52	5 ft. x 16 in.	44.00	44.00	520	10 ft. x 36 in.	288.00	380.00
66	5 ft. x 18 in.	60.00	60.00	360	5 ft. x 42 in.	220.00	276.00
82	5 ft. x 20 in.	68.00	68.00	420	6 ft. x 42 in.	240.00	300.00
100	5 ft. x 22 in.	88.00	88.00	500	7 ft. x 42 in.	260.00	340.00
120	5 ft. x 24 in.	90.00	96.00	575	8 ft. x 42 in.	280.00	360.00
144	6 ft. x 24 in.	94.00	124.00	720	10 ft. x 42 in.	310.00	390.00
168	7 ft. x 24 in.	108.00	144.00	470	5 ft. x 48 in.	250.00	320.00
192	8 ft. x 24 in.	124.00	164.00	570	6 ft. x 48 in.	280.00	360.00
150	4 ft. x 30 in.	100.00	136.00	650	7 ft. x 48 in.	290.00	370.00
185	5 ft. x 30 in.	110.00	164.00	750	8 ft. x 48 in.	300.00	380.00
203	5½ ft. x 30 in.	120.00	172.00	850	9 ft. x 48 in.	310.00	395.00
225	6 ft. x 30 in.	140.00	192.00	940	10 ft. x 48 in.	320.00	405.00
212	4 ft. x 36 in.	125.00	180.00				

## IRON HOT WATER TANKS



FIG. H-1457.

Having  $\frac{3}{16}$  inch Shell and  $\frac{1}{4}$  inch Heads.

Capacity, Gallons.	Dimen- sions, inches.	Price, Black.	Price, Galvanized.	Capacity, Gallons.	Dimensions, inches.	Price, Black.	Price, Galvanized.
66	18 x 60	\$48.00	\$70.00	265	36 x 60	\$100.00	\$154.00
82	20 x 60	54.00	78.00	290	36 x 66	105.00	165.00
100	22 x 60	59.00	87.00	315	36 x 72	110.00	170.00
120	24 x 60	64.00	94.00	360	36 x 84	134.00	200.00
144	24 x 72	72.00	108.00	415	36 x 96	144.00	215.00
150	30 x 48	77.00	112.00	520	36 x 120	165.00	247.00
185	30 x 60	84.00	125.00	360	42 x 60	134.00	200.00
225	30 x 72	91.00	141.00	430	42 x 72	150.00	220.00
260	30 x 84	109.00	159.00	500	42 x 84	170.00	246.00
300	30 x 96	118.00	176.00	575	42 x 96	186.00	268.00
370	30 x 120	130.00	194.00	720	42 x 120	220.00	310.00
210	36 x 48	91.00	141.00	---	---	---	---

Having  $\frac{1}{4}$  inch Shell and  $\frac{3}{8}$  inch Heads.

Capacity, Gallons.	Dimen- sions, in.	Price, Black.	Price, Galvanized.	Capacity, Gallons.	Dimensions, inches.	Price, Black.	Price, Galvanized.
150	30 x 48	\$82.00	\$131.00	360	42 x 60	\$144.00	\$224.00
185	30 x 60	92.00	148.00	430	42 x 72	160.00	245.00
225	30 x 72	102.00	166.00	500	42 x 84	180.00	276.00
260	30 x 84	120.00	184.00	575	42 x 96	196.00	300.00
300	30 x 96	130.00	204.00	720	42 x 120	230.00	350.00
370	30 x 120	142.00	232.00	470	48 x 60	205.00	305.00
210	36 x 48	102.00	166.00	570	48 x 72	226.00	340.00
265	36 x 60	110.00	180.00	650	48 x 84	255.00	375.00
290	36 x 66	115.00	195.00	750	48 x 96	275.00	410.00
315	36 x 72	120.00	200.00	850	48 x 108	300.00	445.00
360	36 x 84	144.00	224.00	940	48 x 120	325.00	485.00
415	36 x 96	154.00	242.00	1030	48 x 132	350.00	520.00
520	36 x 120	175.00	275.00	1130	48 x 144	375.00	560.00

Other sizes made to order.

The above price-lists include four tapplings for water connections, tapplings not to be larger than 2 inch iron pipe size. Special tapplings, manholes and handholes, when desired, will be charged extra in addition to the price for tanks.

If with Coils, prices on application.



## GALVANIZED HOT WATER BOILERS FOR BARBERS

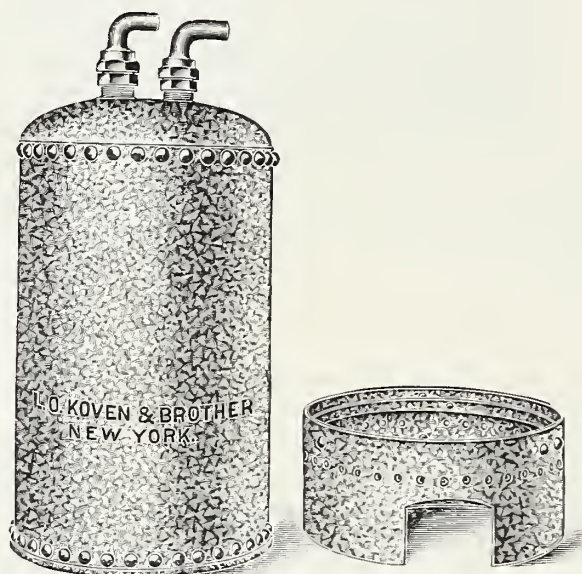


FIG. H-1458

Capacity, Gallons.	Diameter, inches.	Height, inches.	Price.
5	9	20	\$8.00
8	10	20	8.50
10	12	20	9.00
12	14	20	10.00
Stand, 6 inches High, 9, 10 and 12 inches Diameter			\$1.50
Stand, 6 inches High, 14 inches Diameter			2.00
Burner			1.00
Iron Pipe Couplings, per set			1.20
Lead Pipe Couplings, per set			1.10



# "CRESCENT" INSTANTANEOUS GAS WATER HEATERS

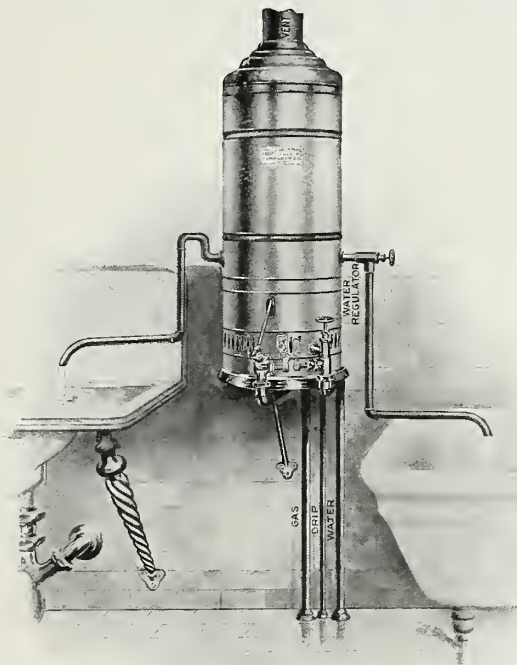


FIG. H-1459

More Crescent Heaters are used each year than all other kinds combined. Crescent Heaters are the product of years of experience and experiment. They are the nearest approach to perfection and are equalled by none.

## EVERY HEATER GUARANTEED

**CRESCENT HEATERS No. 2 FOR DOMESTIC USE AND BATHS.**—The most perfect water heaters made; are so constructed that the products of combustion are entirely separated from the water by tinned water surfaces.

**CRESCENT HEATERS NOS. 6 AND 8 FOR BATHS ONLY.**—The water comes into direct contact with the heat. These heaters have the greatest capacity of any made. No waste heat or water.

**No. 10, FOR SHOWER BATHS ONLY.**—With addition of Overhead Shower and Spout.

No. 2, Nickel-plated, each	-----	\$40.00
No. 6, Nickel-plated, each	-----	29.00
No. 8, Nickel-plated, each	-----	23.50
No. 10, Nickel-plated, each	-----	52.00

Prices on all include Nickel-plated Shelf and Brackets, Duplex Safety Valves and Unions. No. 10 has in addition, Overhead Shower and Spout.

Number	2	6	8	10
Gallons heated, per minute	2½	3	2¼	2½
Height, inches	34⅝	29½	30	34
Diameter, inches	12	12	10¼	12
Shipping weight, pounds	75	65	54	90

## PLAIN SQUARE TUBE GAS BRACKETS

POLISHED BRASS

STIFF

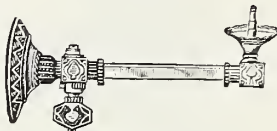


FIG. H-1460

Straight, each  
Curved, each

.55

.70

ONE SWING

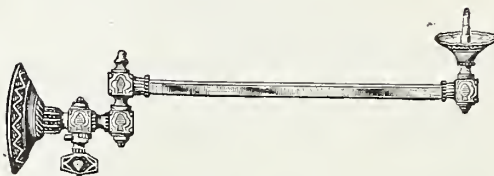


FIG. H-1461

Each

.90

TWO SWING

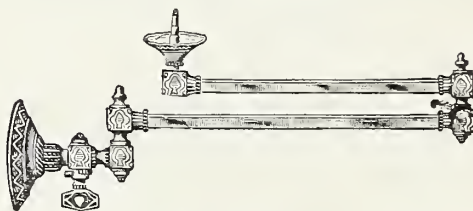


FIG. H-1462

Each

\$1.25

THREE SWING

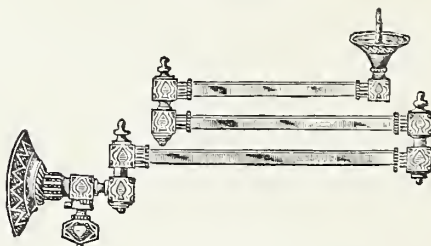


FIG. H-1463

Each

\$1.65

# STAPLE GAS BRACKETS

ROUND TUBE

FRENCH BRONZE OR GILT FINISH

STIFF, STRAIGHT



FIG. H-1464

6 inches long, each	.40
8 inches long, each	.45

STIFF, CURVED



FIG. H-1465

Each	.45
------	-----

ONE SWING, STRAIGHT



FIG. H-1466

Each	.50
------	-----

ONE SWING, CURVED



FIG. H-1467

Each	.60
------	-----

TWO SWING

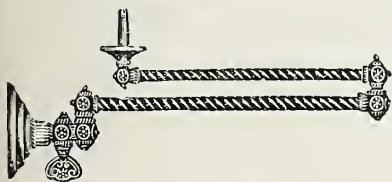


FIG. H-1468

Each	.80
------	-----

THREE SWING



FIG. H-1469

Each	\$1.15
------	--------

TWO SWING, UNIVERSAL



FIG. H-1470

Each	\$1.15
------	--------

THREE SWING, UNIVERSAL

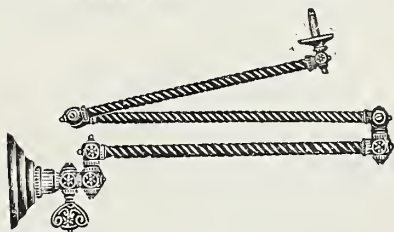


FIG. H-1471

Each	\$1.40
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# STAPLE GAS FIXTURES

## ONE-LIGHT PENDANT



FIG. H-1472

## SLEEVE PENDANT, BRONZED

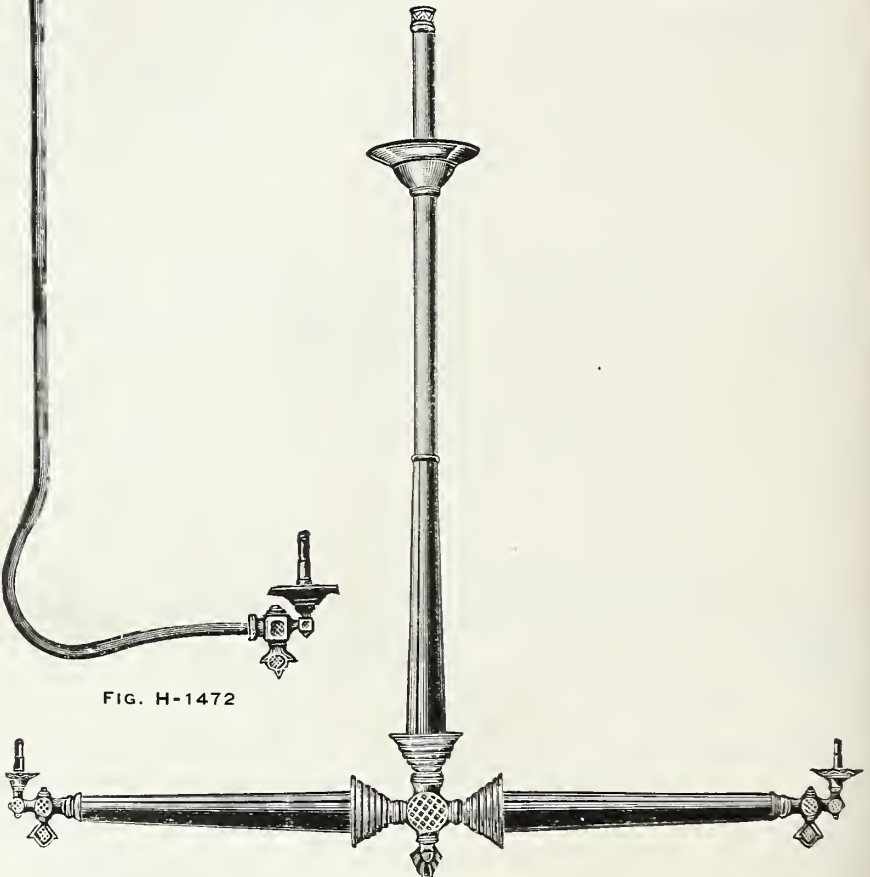


FIG. H-1473

## FIG. H-1472—ONE LIGHT PENDANT

30 inch Polished Brass, each	\$1.50
30 inch Bronzed Iron, each	1.25

## FIG. H-1473—SLEEVE PENDANTS

Light.	Stem.	Spread.	Each.	Light.	Stem.	Spread.	Each.
2	24 inches	24 inches	\$2.80	2	42 inches	42 inches	\$3.70
2	30 inches	30 inches	3.10	2	42 inches	48 inches	4.00
2	36 inches	36 inches	3.38				

GAS FIXTURE FITTINGS

BRASS PILLAR



FIG. H-1474

Per dozen ..... .20

LAVA TIP



FIG. H-1475

Per gross ..... \$1.50

ACETYLENE  
GAS BURNER



FIG. H-1476

Per doz ..... \$2.50

GEM  
SELF-LIGHTER

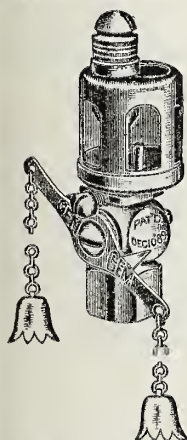


FIG. H-1477

Per doz ..... \$6.00

GOOSE NECK



FIG. H-1478

Cast, per doz. \$3.00

Wire, per doz. 2.50

GOOSE NECK  
SOCKET



FIG. H-1479

$\frac{5}{16}$  and  $\frac{3}{8}$  inch

Per doz. \$3.00

BOX PLATE

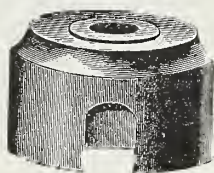


FIG. H-1480

Per doz ..... \$1.50

BRACKET BACK

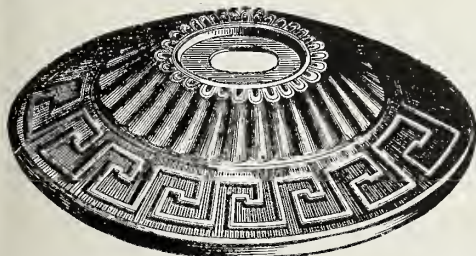


FIG. H-1481

Diameter, inches .....  $2\frac{1}{2}$  3  
Per doz ..... .50 .60

BURNER CUP

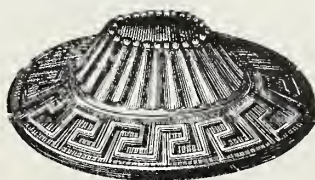


FIG. H-1482

Per doz ..... .20



## GAS FIXTURE FITTINGS

## PLAIN RING GLOBE HOLDER

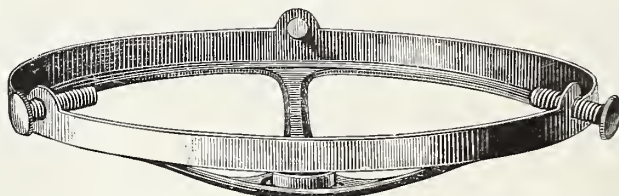


FIG. H-1483

Size, inches	4	5
Per dozen	\$1.10	1.25

## TAPER SLIDE AND KEY



FIG. H-1484

Per dozen	\$9.00
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## WAX TAPERS

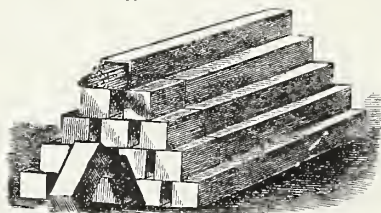


FIG. H-1485

Per box of 30	.15
Per box of 60	.30
Per box of 120	.60

## TUBING



FIG. H-1486

Mohair Gas Stove Tubing, $\frac{3}{8}$ inch.	
per foot	.10
Mohair Drop Light Tubing, $\frac{3}{8}$ inch.	
per foot	.10

## MONITOR HEATER

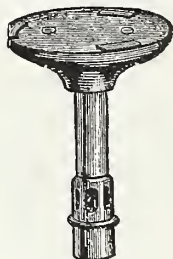


FIG. H-1487

Per dozen	\$9.00
-----------	--------

## MONITOR STAND



FIG. H-1488

Per dozen	\$4.20
-----------	--------

## STANDARD GAS FIXTURE FITTINGS

L BURNER COCK



FIG. H-1489

PILLAR COCK



FIG. H-1490

INDEPENDENT  
COCK

FIG. H-1491

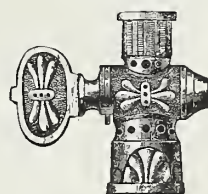
STREET LAMP  
COCK

FIG. H-1492

HOSE COCK,  
FEMALE

FIG. H-1493

HOSE COCK,  
MALE

FIG. H-1494

STRAIGHT  
NOZZLE

FIG. H-1495

SIDE  
NOZZLE

FIG. H-1496

Size, inches	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{8}$
Fig. H-1489—L Burner Cock, per doz	-----	6.20	5.20	4.55	4.25
Fig. H-1490—Pillar Cock, per doz	\$6.50	5.20	4.55	4.25	3.90
Fig. H-1491—Independent Cock, per doz	-----	-----	6.50	6.00	6.00
Fig. H-1492—Street Lamp Cock, per doz	6.50	5.85	4.55	-----	-----
Fig. H-1493—Hose Cock, per doz	-----	5.55	4.90	4.55	4.25
Fig. H-1494—Hose Cock, per doz	-----	-----	5.20	4.90	4.55
Fig. H-1495—Straight Nozzle, per doz	-----	-----	1.95	1.65	1.00
Fig. H-1496—Side Nozzle, per doz	-----	-----	2.40	1.65	1.00

STIFF JOINT



FIG. H-1497

Size, inches	$\frac{1}{2} \times \frac{1}{2}$	$\frac{1}{2} \times \frac{3}{8}$	$\frac{1}{2} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{8}$
Fig. H-1497—Standard, per doz	\$3.25	2.60	2.60	1.95	1.85	1.55

## STANDARD GAS FIXTURE FITTINGS

BRACKET COCK

UNIVERSAL SWINGS

REVOLVING COCK

STRAIGHT COCK

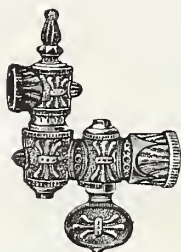


FIG. H-1498

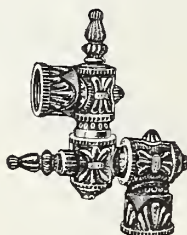


FIG. H-1499



FIG. H-1500



FIG. H-1501

2 LIGHT PENDANT COCK

L PENDANT COCK

UNIVERSAL REVOLVING COCK



FIG. H-1502



FIG. H-1503

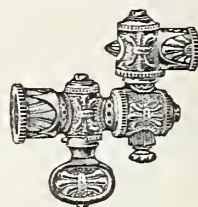


FIG. H-1504

MIDDLE SWING

TOP SWING

UNIVERSAL BRACKET COCK



FIG. H-1505



FIG. H-1506

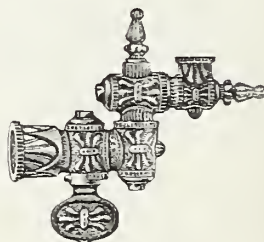


FIG. H-1507

Size, inches	$\frac{3}{8} \times \frac{3}{8}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{1}{4} \times \frac{1}{8}$	$\frac{1}{8} \times \frac{1}{8}$
Fig. H-1498—Bracket Cocks, per doz	\$9.10	8.45	8.15	8.15	---	---
Fig. H-1499—Universal Swings, per doz	9.10	8.80	8.80	8.45	8.15	7.80
Fig. H-1500—Revolving Cocks, per doz	8.50	8.15	7.80	7.50	7.15	7.00
Fig. H-1501—Straight Cocks, per doz	4.90	4.55	4.55	4.55	4.25	3.90
Fig. H-1502—2 Light Pendant Cocks, per doz	10.10	9.10	9.10	9.10	8.45	8.45
Fig. H-1503—L Pendant Cocks, per doz	5.85	5.20	5.20	5.20	4.90	4.90
Fig. H-1504—Univ. Revolving Cocks, per doz	10.00	9.75	9.45	9.10	8.80	---
Fig. H-1505—Middle Swings, per doz	---	---	---	4.90	4.55	4.25
Fig. H-1506—Top Swings, per doz	6.20	5.55	5.20	---	---	---
Fig. H-1507—Univ. Bracket Cocks, per doz	13.00	12.35	12.05	12.05	---	---

## FIRE CLAY FLUE LININGS

PLAIN, ROUND CORNERS

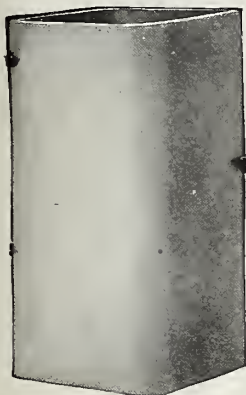


FIG. H-1508

OPENING,  
ROUND CORNERS

FIG. H-1509

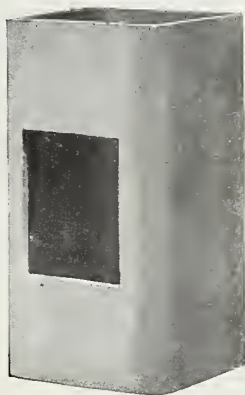
REGISTER OPENING,  
ROUND CORNERS

FIG. H-1510

FIGS. H-1508, H-1509 AND H-1510

In 2 foot Lengths, Outside Measure.

$4\frac{1}{2}$ x $8\frac{1}{2}$ inches, 14 lbs., per foot	.30	12 x 16 inches, 45 lbs., per foot	1.00
$4\frac{1}{2}$ x 13 inches, 19 lbs., per foot	.45	13 x 13 inches, 40 lbs., per foot	.85
$4\frac{1}{2}$ x 18 inches, 40 lbs., per foot	1.00	13 x 18 inches, 57 lbs., per foot	1.20
6 x 12 inches, 22 lbs., per foot	.50	14 x 16 inches, 50 lbs., per foot	1.10
7 x 7 inches, 18 lbs., per foot	.35	16 x 16 inches, 60 lbs., per foot	1.60
$8\frac{1}{2}$ x $8\frac{1}{2}$ inches, 18 lbs., per foot	.45	16 x 20 inches, 75 lbs., per foot	2.00
$8\frac{1}{2}$ x 13 inches, 23 lbs., per foot	.65	18 x 18 inches, 75 lbs., per foot	2.00
$8\frac{1}{2}$ x 18 inches, 45 lbs., per foot	.90		

Openings and Registers, 50 per cent. added.

FIG. H-1511

ROUND  
FLUE LINING

ROUND FLUES WITHOUT SOCKETS



FIG. H-1511

Inside Measure	Weight per foot	Price per foot
6 inches	15 pounds	.30
7 inches	$17\frac{1}{2}$ pounds	.38
8 inches	20 pounds	.45
9 inches	25 pounds	.55
10 inches	$27\frac{1}{2}$ pounds	.65
12 inches	$32\frac{1}{2}$ pounds	.85
15 inches	55 pounds	1.25
18 inches	70 pounds	1.70
20 inches	$87\frac{1}{2}$ pounds	2.25
21 inches		2.50
22 inches		2.75
24 inches	125 pounds	3.25
27 inches		4.25
30 inches		5.50
33 inches		6.25
36 inches		7.00

Openings four times price of one foot straight pipe.



## SEWER PIPE AND FITTINGS

SOCKET PIPE



FIG. H-1512

"T" BRANCH



FIG. H-1513

"Y" BRANCH



FIG. H-1514

DOUBLE "Y"



FIG. H-1515

"V" BRANCH



FIG. H-1516

"P" TRAP



FIG. H-1517

"S" TRAP



FIG. H-1518

RUNNING TRAP



FIG. H-1519

SINGLE H. H. TRAP



FIG. H-1520

DOUBLE H. H. TRAP



FIG. H-1521

2 FOOT SLANT



FIG. H-1522

INCREASER



FIG. H-1523

REDUCER



FIG. H-1524

ELBOW



FIG. H-1525

 $\frac{1}{8}$  BEND, 2 FT. LONG

FIG. H-1526



## PRICE LIST OF VITRIFIED SALT GLAZED SEWER PIPE

Adopted by the Eastern Manufacturers May 1, 1906.

Calibre of Pipe, inches.	Price, per foot.	Elbows and Curves, each.	Slants 1 Foot or Less, per foot. Long Side.	Increases and Reducers, each.	R, P, S, and Single H. H. Traps, each.	Double H. H. Traps, each.	Two-piece Traps, per pair.	Well Traps, each.	Grease Traps with Bottom and Cover, each.	Channel Pipe, per foot.
2	\$0.16	\$0.50			\$1.50	\$1.90				
3	.16	.50	\$0.48	\$0.64	1.50	1.90	\$1.90			\$0.09
4	.20	.65	.60	.80	2.00	2.50	2.40			.12
5	.25	.85	.75	1.00	2.50	3.13	3.00			.15
6	.30	1.10	.90	1.20	3.50	4.25	3.60	\$2.00		.18
8	.50	2.00	1.50	2.00	6.00	7.75	6.00	3.30	\$6.00	.30
9	.60	2.40	1.80	2.40	7.50	9.00	6.60	3.90	6.75	.36
10	.75	3.00	2.25	3.00	9.00	11.00	7.80	4.70	7.50	.45
12	1.00	4.00	3.00	4.00	15.00	16.50	12.75	6.00	10.00	.60
15	1.35	5.40	4.05	5.40					15.00	.81
18	1.70	6.80	5.10	6.80					20.00	1.02
20	2.25	9.00	6.75	9.00						1.35
21	2.50	10.00	7.50	10.00						1.50
22	2.75	11.00	8.25	11.00						1.65
24	3.25	13.00	9.75	13.00						1.95
27	4.25	20.00	12.75	17.00						2.55
30	5.50	27.50	16.50	22.00						3.30
33	6.25	30.00	18.75	25.00						3.75
36	7.00	32.50	21.00	28.00						4.20

### BRANCHES

Calibre of Pipe, inches.	1 or 2 feet long, with Inlets up to and including 12 inches, each.	2½ or 3 feet long, with Inlets up to and including 12 inches, each.	2½ or 3 feet long, with Inlets 15 inches or larger, each.	Double 2 feet long, with Inlets up to and including 12 inches, each.	Double 2½ or 3 feet long, with Inlets up to and including 12 inches, each.	Double 2½ or 3 feet long, with Inlets 15 inches or larger, each.	Stoppers or Plugs, each.	Flat Strainers, each.	Perforated Pipe, per foot.
2	\$0.72	\$1.04		\$1.12	\$1.44		\$0.05½	\$0.10½	\$0.32
3	.72	1.04		1.12	1.44		.05½	.10½	.32
4	.90	1.30		1.40	1.80		.06½	.13½	.40
5	1.13	1.63		1.76	2.26		.08½	.16½	.50
6	1.35	1.95		2.10	2.70		.10	.20	.60
8	2.25	3.25		3.50	4.50		.16½	.33½	1.00
9	2.70	3.90		4.20	5.40		.20	.40	1.20
10	3.40	4.90		5.30	6.80		.25	.50	1.50
12	4.50	6.50		7.00	9.00		.33½	.66½	2.00
15	6.10	8.80	\$11.85	9.50	12.20	\$18.30	.45	.90	2.70
18	7.65	11.05	14.88	11.90	15.30	22.96			3.40
20	10.13	14.63	19.70	15.76	20.26	30.40			4.50
21	11.25	16.25	21.88	17.50	22.50	33.76			5.00
22	12.38	17.88	24.07	19.26	24.76	37.14			5.50
24	14.63	21.13	28.45	22.76	29.26	43.90			6.50
27		21.25	31.88		31.88	53.14			8.50
30		27.50	41.25		41.25	68.75			11.00
33		31.25	46.88		46.88	78.14			12.50
36		35.00	52.50		52.50	87.50			14.00

Increases shall have sockets on small end. Reducers sockets on large end. No slant to be charged at less than one foot. Excess over one foot at proportionate rate. Discounts governing price of 2 to 24 inches will not apply on sizes 27 to 36 inches. Branches with inlets 15 inches and larger that cannot be made on main pipe in 2 foot lengths will be furnished in 2½ foot lengths or longer.

All branches and traps with more than one inlet, extra price.

Every shipment at the risk of the purchaser and no allowance for breakage.

## STANDARD

[illegible]

## EXTRA HEAVY

[illegible]

## CAST IRON SOIL PIPE

LIST ADOPTED MAY 24, 1907

IN 5 FOOT LENGTHS, (EXCEPT 12 INCH, 6 FEET LONG)

## SINGLE HUB



FIG. H-1527

	Weight, per Foot.		Standard.	Ex. Heavy.
	Standard. Lbs.	Ex. Heavy. Lbs.		
2 inch, per foot	3½	5½	.26	.40
3 inch, per foot	4½	9½	.32	.65
4 inch, per foot	6½	13	.42	.85
5 inch, per foot	8½	17	.60	1.15
6 inch, per foot	10½	20	.75	1.35
7 inch, per foot	15	27	1.00	1.75
8 inch, per foot	17	34	1.25	2.25
10 inch, per foot	23	45	2.00	3.00
12 inch, per foot	33	54	3.00	4.00
15 inch, per foot			4.50	6.00

## DOUBLE HUB



FIG. H-1528

	Standard.	Ex. Heavy.
2 inch, per foot	.32	.46
3 inch, per foot	.38	.71
4 inch, per foot	.48	.91
5 inch, per foot	.70	1.25
6 inch, per foot	.90	1.50
7 inch, per foot	1.15	1.95
8 inch, per foot	1.45	2.55
10 inch, per foot	2.40	3.60
12 inch, per foot	3.50	4.60
15 inch, per foot	5.00	7.00

See page 536 for approximate weights of Soil Pipe and Fittings.

# CAST IRON SOIL PIPE FITTINGS

LIST ADOPTED MAY 24, 1907

## BENDS

QUARTER



FIG. H-1529

SIXTH



FIG. H-1530

EIGHTH



FIG. H-1531

SIXTEENTH



FIG. H-1532

Size, inches.....	2	3	4	5	6	7	8	10	12
Standard, each.....	.45	.70	1.00	1.75	2.25	3.00	4.00	5.00	8.00
Extra Heavy, each.....	.65	1.00	1.30	2.20	3.25	4.00	5.00	6.00	10.00

## DOUBLE HUB BENDS

QUARTER



FIG. H-1533

EIGHTH



FIG. H-1534

SIXTEENTH



FIG. H-1535

Size, inches.....	2	3	4	5	6
Standard, each.....	.75	1.00	1.30	2.25	2.75
Extra Heavy, each.....	.85	1.30	1.60	2.70	3.25

SINGLE HUB



FIG. H-1536

## RETURN BENDS

DOUBLE HUB



FIG. H-1537

Size inches.....	2	3	4	5	6
Standard, each..	.80	1.55	2.15	3.15	3.75
Ex. Heavy, ea..	\$1.05	1.80	2.65	4.15	5.25

Size, inches.....	2	3	4
Standard, each.....	\$1.10	1.85	2.45
Extra Heavy, each.....	1.35	2.10	2.95

## CAST IRON SOIL PIPE FITTINGS

QUARTER BEND—WITH SIDE INLET  
(SHOWS R. H. INLET)

FIG. H-1538

QUARTER BEND—WITH HEEL INLET



FIG. H-1539

FIG. H-1538

Size, inches	2	3	4	5	6
Standard, 2 inch Inlet, each	\$1.45	1.70	2.00	2.75	3.25
Standard, 3 inch Inlet, each	---	1.95	2.25	3.00	3.50
Standard, 4 inch Inlet, each	---	---	2.50	3.25	3.75
Extra Heavy, 2 inch Inlet, each	1.55	2.00	2.30	3.20	4.25
Extra Heavy, 3 inch Inlet, each	---	2.25	2.55	3.45	4.50
Extra Heavy, 4 inch Inlet, each	---	---	2.80	3.70	4.75

Right Hand Side Inlet, as shown, will be furnished, unless otherwise ordered.

FIG. H-1539

Size, inches	2	3	4	5	6
Standard, 2 inch Inlet, each	\$1.45	1.70	2.00	2.75	3.25
Standard, 3 inch Inlet, each	---	1.95	2.25	3.00	3.50
Standard, 4 inch Inlet, each	---	---	2.50	3.25	3.75
Extra Heavy, 2 inch Inlet, each	1.55	2.00	2.30	3.20	4.25
Extra Heavy, 3 inch Inlet, each	---	2.25	2.55	3.45	4.50
Extra Heavy, 4 inch Inlet, each	---	---	2.80	3.70	4.75

LONG QUARTER BEND



FIG. H-1540

LONG EIGHTH BEND



FIG. H-1541

FIGS. H-1540 AND H-1541

Size, inches	2	3	4	5	6
12 inch in Clear, Standard, each	\$1.10	1.60	2.25	3.50	4.75
12 inch in Clear, Extra Heavy, each	1.55	2.30	3.50	5.00	6.50
18 inch in Clear, Standard, each	1.40	2.00	2.75	4.25	5.50
18 inch in Clear, Extra Heavy, each	2.00	3.00	4.25	6.00	7.50
24 inch in Clear, Standard, each	---	---	3.50	---	---
24 inch in Clear, Extra Heavy, each	---	---	5.25	---	---



# CAST IRON SOIL PIPE FITTINGS

## LONG CURVE QUARTER BEND

PLAIN



FIG. H-1542

Size, inches.....	2	3	4	5	6	8
Standard, each.....	\$1.20	1.50	2.00	3.00	4.00	---
Extra Heavy, each.....	1.80	2.00	2.75	4.00	5.50	7.50

FIG. H-1542

TEE



FIG. H-1543

SANITARY TEE



FIG. H-1544

FIG. H-1543

Size, inches.....	2 x 2	3 x 3	3 x 2	4 x 4	4 x 3	4 x 2	5 x 5	5 x 4
Standard, each.....	.70	1.25	1.25	1.75	1.75	1.75	2.25	2.25
Extra Heavy, each.....	1.00	1.65	1.65	2.40	2.40	2.40	3.30	3.30

Size, inches.....	5 x 3	5 x 2	6 x 6	6 x 5	6 x 4	6 x 3	6 x 2
Standard, each.....	\$2.25	2.25	3.50	3.50	3.50	3.50	3.50
Extra Heavy, each.....	3.30	3.30	4.50	4.50	4.50	4.50	4.50

Size, inches.....	7 and Reducing	8 and Reducing	10 and Reducing	12 and Reducing	15 and Reducing
Standard, each.....	\$5.00	6.00	10.00	14.00	24.00
Extra Heavy, each.....	7.00	9.00	14.00	18.00	30.00

FIG. H-1544

Size, inches.....	2 x 2	3 x 3	3 x 2	4 x 4	4 x 3	4 x 2	5 x 5	5 x 4
Standard, each.....	.70	1.25	1.25	1.75	1.75	1.75	2.25	2.25
Extra Heavy, each.....	1.00	1.65	1.65	2.40	2.40	2.40	3.30	3.30

Size, inches.....	5 x 3	5 x 2	6 x 6	6 x 5	6 x 4	6 x 3	6 x 2
Standard, each.....	\$2.25	2.25	3.50	3.50	3.50	3.50	3.50
Extra Heavy, each.....	3.30	3.30	4.50	4.50	4.50	4.50	4.50

Size, inches.....	7 and Reducing	8 and Reducing	10 and Reducing	12 and Reducing
Standard, each.....	\$5.00	6.00	10.00	14.00
Extra Heavy, each.....	7.00	9.00	14.00	18.00

## CAST IRON SOIL PIPE FITTINGS

SIDE INLET TEE, R. H.



FIG. H-1545

This cut shows R. H. Side Inlet.

SIDE INLET  
SANITARY TEE, R. H.

FIG. H-1546

This cut shows R. H. Side Inlet.

## FIG. H-1545—TEES

With Right or Left Hand Side Inlet.

Add to List Prices of Tees for 2 inch Inlet .....	\$1.00
Add to List Prices of Tees for 3 inch Inlet .....	1.25
Add to List Prices of Tees for 4 inch Inlet .....	1.50

## FIG. H-1546—SANITARY TEES

With Right or Left Hand Side Inlet.

Add to List Prices of Sanitary Tees for 2 inch Inlet .....	\$1.00
Add to List Prices of Sanitary Tees for 3 inch Inlet .....	1.25
Add to List Prices of Sanitary Tees for 4 inch Inlet .....	1.50

Right Hand Side Inlet as shown will be furnished unless otherwise ordered.

TAPPED TEE



FIG. H-1547

TAPPED SANITARY TEE



FIG. H-1548

## FIGS. H-1547 AND H-1548

Size, inches .....	2	2	2	3	3	3	4	4	4	4	4	4
Iron Pipe Thread, inches .....	1¼	1½	2	1¼	1½	2	1¼	1½	2	2½	3	4
Standard, each .....	\$1.45	1.45	1.45	1.80	1.80	1.80	2.20	2.20	2.20	2.50	2.50	2.50
Extra Heavy, each .....	1.75	1.75	1.75	2.20	2.20	2.20	2.95	2.95	2.95	3.15	3.15	3.15

## CAST IRON SOIL PIPE FITTINGS

LONG TEE



FIG. H-1549

LONG SANITARY TEE



FIG. H-1550

FIGS. H-1549 AND H-1550

Size, inches						4 x 4			
In clear, inches					18	24	30	36	
Standard, each					\$3.50	4.25	5.00	5.75	
Extra Heavy, each					5.35	6.10	6.85	7.60	
Size, inches						5 x 4			
In clear, inches					18	24	30	36	
Standard, each					\$4.75	5.75	6.75	7.75	
Extra Heavy, each					7.10	8.10	9.10	10.10	
Size, inches						6 x 4			
In clear, inches					18	24	30	36	
Standard, each					\$6.75	7.75	8.75	9.75	
Extra Heavy, each					8.75	9.75	10.75	11.75	

Y

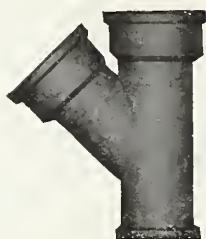


FIG. H-1551

HALF Y



FIG. H-1552

FIGS. H-1551 AND H-1552

Size, inches	2x2	3x3	3x2	4x4	4x3	4x2	5x5	5x4	5x3	5x2	6x6
Standard, each	.70	1.25	1.25	1.75	1.75	1.75	2.25	2.25	2.25	2.25	3.50
Extra Heavy, each	1.00	1.65	1.65	2.40	2.40	2.40	3.30	3.30	3.30	3.30	4.50
Size, inches	6x5	6x4	6x3	6x2	7 and Reducing	8 and Reducing	10 and Reducing	12 and Reducing			
Standard, each	\$3.50	3.50	3.50	3.50	5.00	6.00	10.00	14.00			
Extra Heavy, each	4.50	4.50	4.50	4.50	7.00	9.00	14.00	18.00			

## CAST IRON SOIL PIPE FITTINGS

Y  
WITH RIGHT HAND SIDE INLET



FIG. H-1553

HALF Y  
WITH RIGHT HAND SIDE INLET



FIG. H-1554

FIGS. H-1553 AND H-1554

Size, inches	2x2	3x3	3x2	4x4	4x3	4x2	5x5	5x4	5x3	5x2
Standard, 2 inch Inlet	\$1.70	2.25	2.25	2.75	2.75	2.75	3.25	3.25	3.25	3.25
Extra Heavy, 2 inch Inlet	2.00	2.65	2.65	3.40	3.40	3.40	4.30	4.30	4.30	4.30

Size, inches	6x6	6x5	6x4	6x3	6x2	Straight and Reducing—				
						7	8	10	12	
Standard, 2 inch Inlet	\$4.50	4.50	4.50	4.50	4.50	6.00	7.00	11.00	15.00	
Extra Heavy, 2 inch Inlet	5.50	5.50	5.50	5.50	5.50	8.00	10.00	15.00	19.00	

WITH BRASS TRAP SCREW

Y



FIG. H-1555

HALF Y



FIG. H-1556

FIGS. H-1555 AND H-1556

Size, inches	2x2	3x3	3x2	4x4	4x3	4x2	5x5	5x4	5x3	5x2
Standard	\$3.20	3.75	3.75	4.25	4.25	4.25	4.75	4.75	4.75	4.75
Extra Heavy	3.50	4.15	4.15	4.90	4.90	4.90	5.80	5.80	5.80	5.80

Size, inches	6x6	6x5	6x4	6x3	6x2	Straight and Reducing—				
						7	8	10	12	
Standard	\$6.00	6.00	6.00	6.00	6.00	7.50	8.50	12.50	16.50	
Extra Heavy	7.00	7.00	7.00	7.00	7.00	9.50	11.50	16.50	20.50	

Can be furnished with Right or Left Hand Side Inlet.

## CAST IRON SOIL PIPE FITTINGS

LONG Y



FIG. H-1557

LONG HALF Y



FIG. H-1558

FIGS. H-1557 AND H-1558

Size, inches.....	4x4	4x4	4x4	4x4	5x4	5x4	5x4	5x4	6x4	6x4	6x4	6x4
In clear, inches.....	18	24	30	36	18	24	30	36	18	24	30	36
Standard, each.....	\$3.50	4.25	5.00	5.75	4.75	5.75	6.75	7.75	6.75	7.75	8.75	9.75
Extra Heavy, each.....	5.35	6.10	6.85	7.60	7.10	8.10	9.10	10.10	8.75	9.75	10.75	11.75

DOUBLE Y



FIG. H-1559

DOUBLE HALF Y



FIG. H-1560

DOUBLE Y  
WITH BRASS TRAP SCREW  
ON SIDE

FIG. H-1561

FIGS. H-1559 AND H-1560

Size, inches.....	2x2	3x3	3x2	4x4	4x3	4x2	5x5	5x4	5x3	5x2	6x6
Standard, each.....	\$1.40	2.05	2.05	2.60	2.60	2.60	3.35	3.35	3.35	3.35	5.25
Extra Heavy, each.....	2.00	2.75	2.75	3.60	3.60	3.60	4.45	4.45	4.45	4.45	6.75

Size, inches.....	6x5	6x4	6x3	6x2	7 and Reducing.	8 and Reducing.	10 and Reducing.	12 and Reducing.
Standard, each.....	\$5.25	5.25	5.25	5.25	7.50	9.00	15.00	21.00
Extra Heavy, each.....	6.75	6.75	6.75	6.75	10.50	13.50	21.00	27.00

FIG. H-1561

Size, inches.....	2x2	3x3	3x2	4x4	4x3	4x2	5x5	5x4	5x3	5x2
Standard, each.....	\$3.90	4.55	4.55	5.10	5.10	5.10	5.85	5.85	5.85	5.85
Extra Heavy, each.....	4.50	5.25	5.25	6.10	6.10	6.10	6.95	6.95	6.95	6.95



## CAST IRON SOIL PIPE FITTINGS

CROSS



FIG. H-1562

SANITARY CROSS

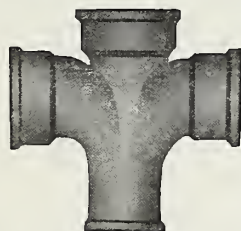


FIG. H-1563

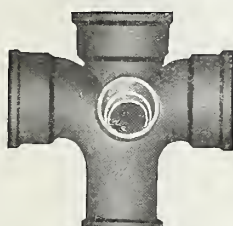
SANITARY CROSS  
WITH SIDE INLET

FIG. H-1564

FIG. H-1562

Size, inches	2x2	3x3	3x2	4x4	4x3	4x2	5x5	5x4	5x3	5x2	6x6
Standard, each	\$1.40	2.05	2.05	2.60	2.60	2.60	3.35	3.35	3.35	3.35	5.25
Extra Heavy, each	2.00	2.75	2.75	3.60	3.60	3.60	4.45	4.45	4.45	4.45	6.75

Size, inches	6x5	6x4	6x3	6x2	7 and Reducing	8 and Reducing	10 and Reducing	12 and Reducing
Standard, each	\$5.25	5.25	5.25	5.25	7.50	9.00	15.00	21.00
Extra Heavy, each	6.75	6.75	6.75	6.75	10.50	13.50	21.00	27.00

FIG. H-1563

Size, inches	2x2	3x3	3x2	4x4	4x3	4x2	5x5	5x4	5x3	5x2	6x6
Standard, each	\$1.40	2.05	2.05	2.60	2.60	2.60	3.35	3.35	3.35	3.35	5.25
Extra Heavy, each	2.00	2.75	2.75	3.60	3.60	3.60	4.45	4.45	4.45	4.45	6.75

Size, inches	6x5	6x4	6x3	6x2	7 and Reducing	8 and Reducing	10 and Reducing	12 and Reducing
Standard, each	\$5.25	5.25	5.25	5.25	7.50	9.00	15.00	21.00
Extra Heavy, each	6.75	6.75	6.75	6.75	10.50	13.50	21.00	27.00

FIG. H-1564

Add to list prices of Crosses and Sanitary Crosses for Side Inlet :

Size Inlet, inches	2	3	4
Each	\$1.00	1.25	1.50

CROSS—HUB ENDS



FIG. H-1565

SANITARY CROSS—HUB ENDS

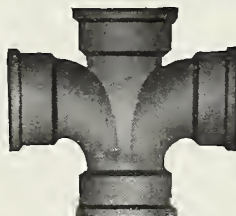


FIG. H-1566

Size, inches	4
Standard, each	\$2.90

Size, inches	2x2	4x2	4x4
Standard, each	\$1.70	2.90	2.90

## CAST IRON SOIL PIPE FITTINGS

## CROSS-TAPPED



FIG. H-1567

## SANITARY CROSS-TAPPED



FIG. H-1568

FIG. H-1567

Size, inches	2	2	2	3	3	3	4	4	4	4	4	4
I. P. Thread, inches	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	4
Standard, each	\$2.40	2.40	2.40	2.85	2.85	2.85	3.40	3.40	3.40	3.60	3.60	3.60
Extra Heavy, each	3.00	3.00	3.00	3.55	3.55	3.55	4.40	4.40	4.40	4.60	4.60	4.60

FIG. H-1568

Size, inches	2	2	2	3	3	3	4	4	4	4	4	4
I. P. Thread, inches	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	4
Standard, each	\$2.40	2.40	2.40	2.85	2.85	2.85	3.40	3.40	3.40	3.60	3.60	3.60
Extra Heavy, each	3.00	3.00	3.00	3.55	3.55	3.55	4.40	4.40	4.40	4.60	4.60	4.60

## OFFSETS

## PLAIN



FIG. H-1569

## WITH 2 INCH VENT



FIG. H-1570

FIG. H-1569

To Offset, inches	2	4	6	8	10	12	14	16	18	20	22	24
2 inch, Standard, each	.75	.85	1.00	1.15	1.35	1.50	1.65	2.10	2.50	2.90	3.70	---
2 inch, Extra Heavy, each	\$1.15	1.35	1.50	1.65	1.80	1.95	2.15	2.40	3.00	3.75	4.50	---
3 inch, Standard, each	1.20	1.35	1.50	1.65	1.90	2.10	2.25	2.60	3.00	3.40	4.15	4.50
3 inch, Extra Heavy, each	1.50	1.85	2.00	2.25	2.50	2.70	3.00	3.40	3.75	4.50	---	---
4 inch, Standard, each	1.25	1.50	1.70	1.95	2.20	2.45	3.15	3.50	3.95	4.40	4.85	5.20
4 inch, Extra Heavy, each	1.90	2.10	2.40	2.70	3.00	3.40	4.45	4.85	5.65	6.50	7.85	8.75
5 inch, Standard, each	---	3.40	3.80	4.20	4.60	5.00	5.50	6.00	6.50	7.00	---	---
5 inch, Extra Heavy, each	---	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.50	9.50	---	---
6 inch, Standard, each	---	---	4.00	4.50	5.00	5.50	6.00	6.50	7.50	8.50	10.00	---
6 inch, Extra Heavy, each	---	---	6.00	6.50	7.00	7.50	8.00	9.00	10.25	12.00	14.00	---

FIG. H-1570

For Offset with 2 inch Vent add to List Prices of Plain Offsets \$1.00 each.

## CAST IRON SOIL PIPE FITTINGS

INVERTED Y



FIG. H-1571

INVERTED Y  
TAPPED

FIG. H-1572

FIG. H-1571

Size, inches	2 x 2	3 x 2	4 x 2	4 x 3	5 x 2	5 x 3	5 x 4	6 x 2	6 x 3	6 x 4	8 x 4
Standard, each	\$1.00	1.50	2.00	2.00	2.50	2.50	2.50	3.25	3.25	3.25	6.25
Extra Heavy, each	1.50	2.00	2.50	2.50	3.50	3.50	3.50	4.50	4.50	4.50	9.00

FIG. H-1572

Size, inches	2 x 1½	2 x 1½	2 x 2	3 x 1½	3 x 1½	3 x 2	4 x 1½	4 x 1½	4 x 2	5 x 2
Standard, each	\$1.75	1.75	1.75	2.05	2.05	2.05	2.55	2.55	2.55	3.05
Extra Heavy, each	2.25	2.25	2.25	2.55	2.55	2.55	3.05	3.05	3.05	4.05

## DOUBLE INVERTED Y—NOT ILLUSTRATED

	Plain	Tapped
4 x 2 inch, Standard, each	\$3.00	3.50
4 x 2 inch, Extra Heavy, each	3.75	4.25

VENTILATING BRANCH



FIG. H-1573

VENTILATING BRANCH—  
TAPPED

FIG. H-1574

FIG. H-1573

Size, inches	2 x 2	3 x 2	4 x 2	4 x 3	5 x 2	5 x 3	5 x 4	6 x 2	6 x 3	6 x 4	8 x 4
Standard, each	\$1.00	1.50	2.00	2.00	2.50	2.50	2.50	3.25	3.25	3.25	6.25
Extra Heavy, each	1.50	2.00	2.50	2.50	3.50	3.50	3.50	4.50	4.50	4.50	9.00

FIG. H-1574

	Standard.	Extra Heavy.
2 inch, with 1¼ inch Tapped Side Inlet, each	\$1.75	2.25
2 inch, with 1½ inch Tapped Side Inlet, each	1.75	2.25
2 inch, with 2 inch Tapped Side Inlet, each	1.75	2.25
3 inch, with 1¼ inch Tapped Side Inlet, each	2.05	2.55
3 inch, with 1½ inch Tapped Side Inlet, each	2.05	2.55
3 inch, with 2 inch Tapped Side Inlet, each	2.05	2.55
4 inch, with 1¼ inch Tapped Side Inlet, each	2.55	3.05
4 inch, with 1½ inch Tapped Side Inlet, each	2.55	3.05
4 inch, with 2 inch Tapped Side Inlet, each	2.55	3.05
5 inch, with 2 inch Tapped Side Inlet, each	3.05	4.05

## CAST IRON SOIL PIPE FITTINGS

SINGLE HUB

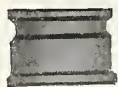


FIG. H-1575

DOUBLE HUB



FIG. H-1576

SLEEVE

FIG. H-1577  
FIG. H-1575

REDUCER



FIG. H-1578

PLUG



FIG. H-1579

Size, inches	2	3	4	5	6	7	8	10	12
Standard, each	.35	.60	.75	1.00	1.25	1.40	2.50	3.50	5.00
Extra Heavy, each	.50	.80	.95	1.35	1.60	2.50	3.50	4.50	8.00

FIGS. H-1576 AND H-1577

Size, inches	2	3	4	5	6	7	8	10	12
Standard, each	.35	.60	.75	1.00	1.25	1.50	2.50	3.50	5.00
Extra Heavy, each	.50	.80	.95	1.35	1.60	2.50	3.50	4.50	8.00

FIG. H-1578

Size, inches	3	4	5	6	7	8	10	12
Standard, each	.70	.90	1.15	1.25	1.75	2.50	4.50	6.25
Extra Heavy, each	1.00	1.25	1.75	2.25	3.25	4.25	5.75	10.00

Spigot End governs price of Reducers.

FIGS. H-1579

Size, inches	2	3	4	5	6	7	8	10	12
Standard, each	.15	.25	.30	.40	.50	.90	1.20	2.00	3.00
Extra Heavy, each	.25	.35	.50	.75	1.00	1.25	1.50	3.00	4.00

INCREASER



FIG. H-1580

INCREASER-  
TAPPED

FIG. H-1581

SHORT  
INCREASER-  
TAPPED

FIG. H-1582

FIG. H-1580

Hub End governs price.

Size, inches	2 x 3	3 x 4	4 x 5	5 x 6	6 x 8	8 x 10	10 x 12
Standard, each	.70	.90	1.15	1.25	2.00	4.00	6.00
Extra Heavy, each	1.00	1.25	1.75	2.25	5.00	6.50	8.50

FIG. H-1581

Size.	Standard.	Extra Heavy.
1½ inch Pipe Thread to 4 inch Hub, each	\$1.40	1.75
2 inch Pipe Thread to 4 inch Hub, each	1.50	1.85
2 inch Pipe Thread to 5 inch Hub, each	1.75	2.35
3 inch Pipe Thread to 5 inch Hub, each	2.00	2.60

FIG. H-1582

	Extra Heavy.
1¼ or 1½ inch Pipe Thread, 2 inch Hub, each	.85
1¼, 1½ or 2 inch Pipe Thread, 3 inch Hub, each	1.00
1¼, 1½ or 2 inch Pipe Thread, 4 inch Hub, each	1.20



## CAST IRON SOIL PIPE FITTINGS

VENT CAP—  
SPIGOT END

FIG. H-1583

VENT CAP—  
HUB END

FIG. H-1584

FIG. H-1583

"H. D. W." VENT CAP

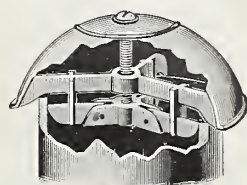


FIG. H-1585

Size, inches	2	3	4	5	6
Standard, each	.60	.80	1.25	2.50	3.50
Extra Heavy, each	.80	1.00	1.75	3.75	5.25

FIG. H-1584

Size, inches	2	3	4	5	6
Standard, each	.90	1.10	1.55	3.00	4.00
Extra Heavy, each	1.10	1.30	2.05	4.25	5.75

FIG. H-1585

H. D. W. Vent Caps, made only in 4 inch, each	.60
-----------------------------------------------	-----

## PIPE BANDS

PLAIN



FIG. H-1586

TEE

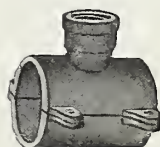


FIG. H-1587

Size, inches	2	3	4	5	6	8
Fig. H-1586—Standard, each	.65	.90	1.20	1.65	2.60	3.35
Fig. H-1586—Extra Heavy, each	1.35	1.70	2.25	3.00	4.10	6.00
Fig. H-1587—Standard, each	1.10	1.50	1.85	2.60	3.35	4.50
Fig. H-1587—Extra Heavy, each	2.25	2.60	3.00	4.10	5.25	7.50

Y



FIG. H-1588

HALF Y



FIG. H-1589

FIGS. H-1588 AND H-1589

Size, inches	2	3	4	5	6
Standard, each	1.10	1.50	1.85	2.60	3.35
Extra Heavy, each	2.25	2.60	3.00	4.10	5.25



## CAST IRON SOIL PIPE FITTINGS

## SADDLE HUBS

TEE



FIG. H-1590

Y



FIG. H-1591

FIG. H-1590

Size, inches	2	3	4	5	6	8	10	12
Standard, each	.45	.75	.90	1.10	1.65	2.25	3.40	6.00
Extra Heavy, each	.60	1.00	1.20	1.50	2.10	3.40	4.90	9.00

FIG. H-1591

Size, inches	2	3	4	5	6	8	10	12
Standard, each	.50	.80	1.05	1.35	1.85	3.00	6.00	6.75
Extra Heavy, each	.65	1.05	1.35	1.70	2.30	4.50	8.25	9.75

HALF Y



FIG. H-1592

Size, inches	2	3	4	5	6	8
Standard, each	.50	.80	1.05	1.35	1.85	3.00
Extra Heavy, each	.65	1.05	1.35	1.70	2.30	4.50

## CONNOLLY SADDLE HUBS

TEE



FIG. H-1593

Y



FIG. H-1594

Size, inches	2x2	3x2, 3x3	4x2, 4x3, 4x4
Fig. H-1593—Tee Hubs, each	.40	.65	.80
Fig. H-1594—Y Hubs, each	.45	.70	.90

Size, inches	5x2, 5x3, 5x4, 5x5	6x2, 6x3, 6x4, 6x5, 6x6
Fig. H-1593—Tee Hubs, each	\$1.00	1.40
Fig. H-1594—Y Hubs, each	1.15	1.55

## CAST IRON SOIL PIPE FITTINGS

## PLAIN TRAPS

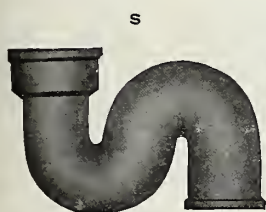


FIG. H-1595

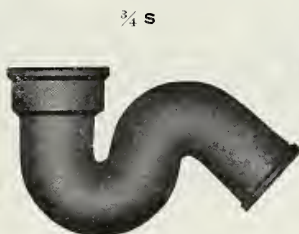


FIG. H-1596

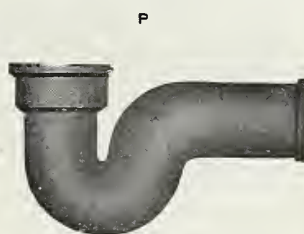


FIG. H-1597

Size, inches .....	2	3	4	5	6	7	8	10
Standard, each .....	.90	1.50	2.00	3.75	5.00	8.00	10.00	---
Extra Heavy, each .....	1.35	2.25	3.00	4.75	7.00	10.00	13.00	22.00

Above "S" Traps are not made in 7 or 10 inch sizes; " $\frac{3}{4}$  S" Traps are not made in 7, 8 or 10 inch sizes.

## TRAPS WITH HAND HOLE AND COVER

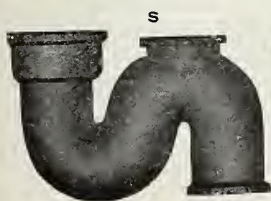


FIG. H-1598

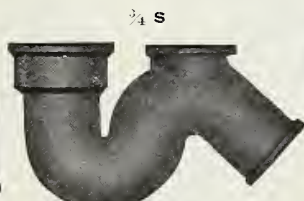


FIG. H-1599



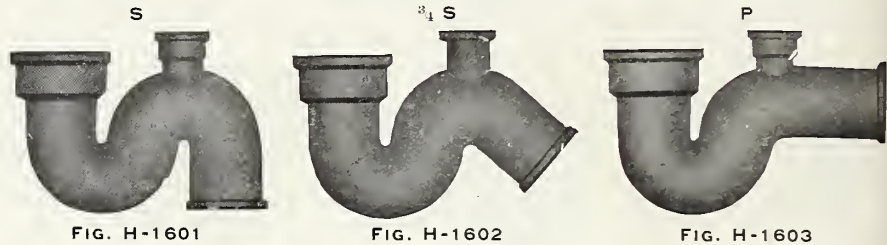
FIG. H-1600

Size, inches .....	2	3	4	5	6	8	10
Standard, each .....	\$1.65	2.25	2.75	4.50	5.75	10.75	16.75
Extra Heavy, each .....	2.10	3.00	3.75	5.50	7.75	13.75	22.75

Above "S" and " $\frac{3}{4}$  S" Traps are not made in 10 inch size.

CAST IRON SOIL PIPE FITTINGS

TRAPS WITH VENTS



Size, inches	2	3	4	5	6	8
With 2 inch Vent, Standard, each	\$1.90	2.50	3.00	4.75	6.00	---
With 2 inch Vent, Extra Heavy, each	2.35	3.25	4.00	5.75	8.00	---
With 4 inch Vent, Standard, each	---	---	3.50	5.25	6.50	---
With 4 inch Vent, Extra Heavy, each	---	---	4.50	6.25	8.50	---
With 6 inch Vent, Standard (S and P only), each	---	---	---	---	---	12.00
With 6 inch Vent, Extra Heavy (S and P only), each	---	---	---	---	---	15.00

RUNNING TRAPS



Size, inches	2	3	4	5	6	8	10	12
Fig. H-1604—Standard, each	.90	1.50	2.00	3.75	5.00	10.00	---	---
Fig. H-1604—Extra Heavy, each	1.35	2.25	3.00	4.75	7.00	13.00	22.00	32.00

Size, inches	2	3	4	5	6	7	8	10	12
Fig. H-1605—Standard, each	\$1.65	2.25	2.75	4.50	5.75	8.75	10.75	16.75	22.75
Fig. H-1605—Extra Heavy, each	2.10	3.00	3.75	5.50	7.75	10.75	13.75	22.75	32.75

## CAST IRON SOIL PIPE FITTINGS

## RUNNING TRAPS

WITH HUB FOR  
VENT

FIG. H-1606

WITH HUBS FOR DOUBLE  
VENT

FIG. H-1607

FIG. H-1606

Size of Trap, inches	2	3	3	4	5	5
Size of Vent, inches	2	2	3	4	4	5
Standard, each	\$1.90	2.50	2.75	3.50	5.25	5.50
Extra Heavy, each	2.35	3.25	3.50	4.50	6.25	6.50

Size of Trap, inches	6	6	7	8	10	12
Size of Vent, inches	4	6	6	6	6	6
Standard, each	\$6.50	7.00	10.00	12.00	18.00	24.00
Extra Heavy, each	8.50	9.00	12.00	15.00	24.00	34.00

FIG. H-1607

Size of Trap, inches	2	3	3	4	5	5
Size of Vent, inches	2	2	3	4	4	5
Standard, each	\$2.90	3.50	4.00	5.00	6.75	7.25
Extra Heavy, each	3.35	4.25	4.75	6.00	7.75	8.25

Size of Trap, inches	6	6	7	8	10	12
Size of Vent, inches	4	6	6	6	6	6
Standard, each	\$8.00	9.00	12.00	14.00	20.00	26.00
Extra Heavy, each	10.00	11.00	14.00	17.00	26.00	36.00

WITH Y BRANCH AND VENT

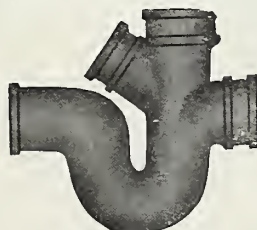


FIG. H-1608

Size of Trap, inches	4	5	6
Standard, each	\$5.00	6.75	8.00
Extra Heavy, each	6.00	8.00	10.00

## CAST IRON SOIL PIPE FITTINGS

## HOPPER TRAPS, LOW PATTERN

S FOR IRON PIPE CONNECTION



FIG. H-1609

S WITH VENT FOR IRON PIPE CONNECTION



FIG. H-1610

THREE-FOURTHS S PLAIN



FIG. H-1611

THREE-FOURTHS S WITH VENT



FIG. H-1612

HALF S PLAIN



FIG. H-1613

HALF S WITH VENT



FIG. H-1614

S,  $\frac{3}{4}$  S and  $\frac{1}{2}$  S Hopper Traps for Iron or Lead Pipe Connections.

SIZE.	Plain.	Enameled Inside.	Enameled Inside and Outside
4 inch, each.....	\$1.75	\$2.50	\$3.50



## PENNIE'S NEW IMPROVED PATENT SEWER GAS AND BACK WATER TRAP

### HORIZONTAL

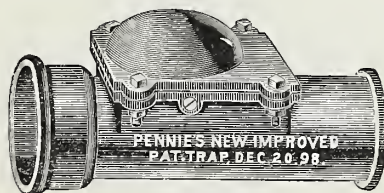


FIG. H-1615

Size, inches .....	2	3	4	5	6	8	10	12	14
Each .....	\$5.00	6.00	8.00	11.00	14.00	22.00	50.00	60.00	125.00

Will fit either Standard or Extra Heavy Pipe.

### DANDY CLEANOUT

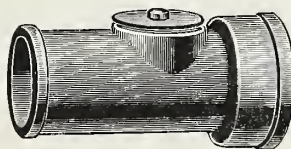


FIG. H-1616

This Cleanout has an Iron Body and Brass Cover. The Cover screws into the Casting, and can be removed easily, as the Iron and Brass will not rust together.

Size, inches .....	2	3	4	5	6	8
Standard, each .....	.75	1.00	1.40	1.80	2.20	---
Extra Heavy, each .....	\$1.00	1.25	1.65	2.10	2.50	8.00

### PALMER SEWER, GAS AND BACK WATER TRAP



FIG. H-1617

FIG. H-1617

Size, inches .....	2	3	4	5	6	8	10	12
Each .....	\$6.00	6.50	7.50	9.00	10.00	15.00	26.00	40.00

### PALMER SEWER VALVES

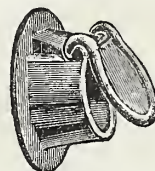


FIG. H-1618

FIG. H-1618

Size, inches .....	2	3	4	5	6	8	10	12
Each .....	\$1.00	1.20	1.60	2.00	2.40	3.20	10.00	15.00

## SISSON INSERTABLE JOINTS

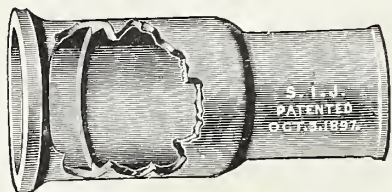


FIG. H-1619

Size, inches .....	2	3	4	5	6
Standard, each .....	\$1.40	1.50	1.80	2.10	2.60
Extra Heavy, each ..	1.50	1.70	2.00	2.30	2.80

With this Fitting a most satisfactory connection can be made and labor and expense saved when a leak is discovered in the Pipe or Fitting already connected up.

**DIRECTIONS.**—Cut out of Soil Pipe the length of Fitting it is desired to insert and  $11\frac{1}{2}$  inches for this Joint. Slip the Lead Ring which accompanies every Joint over the Pipe above, push the Joint up as far as possible and drop this Joint down into it. The Lead Ring will drop into the Joint and rest upon the shoulders inside. Put in the packing and the work is done.

FIG. H-1620

	Galvanized Iron.	Copper.
2 inch, per dozen .....	\$10.00	17.00
3 inch, per dozen .....	11.00	19.00
4 inch, per dozen .....	12.00	20.00
5 inch, per dozen .....	17.00	27.00
6 inch, per dozen .....	30.00	40.00

No. 1 adjusts from  $\frac{1}{2}$  to  $\frac{1}{4}$  pitch. No. 2 adjusts from  $\frac{1}{3}$  pitch to flat

Unless otherwise called for No. 1 Flanges, Galvanized for Standard Soil Pipe, will be sent.

If marked for extra Heavy Soil Pipe be careful to specify this.

### STAR ADJUSTABLE ROOF FLANGES

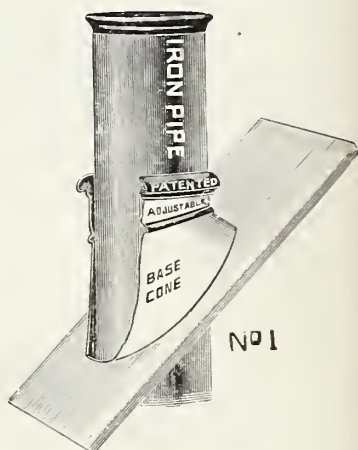


FIG. H-1620

### SOIL PIPE HOOK



FIG. H-1621

FIG. H-1621—SOIL PIPE HOOKS

Size, inches .....	2	3	4	5	6	8
Wrought Iron, each ..	.08	.10	.12	.15	.20	.40

## THE "NATIONAL" COMBINATION BACK WATER FLOOR AND STABLE DRAIN

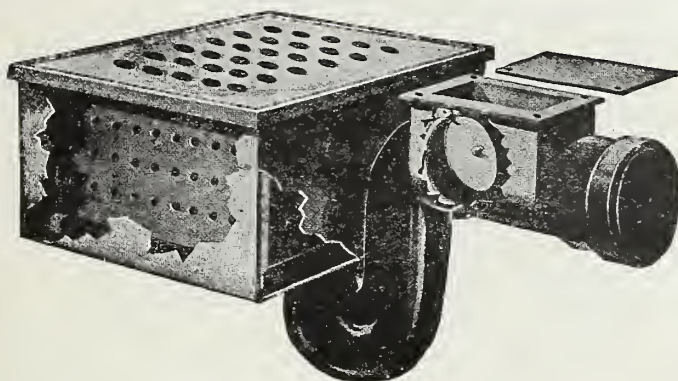


FIG. H-1622

The National Combination Back Water Floor and Stable Drain is made all in one piece of Cast Iron, and there is no cement joint between the floor drain and the trap for sewerage to escape beneath the concrete. It is supplied with a brass backwater valve and cleanout which is level with the surface of the floor. It is provided with a perforated interior basket, which prevents straw or rubbish getting into sewer and clogging it, or rendering the backwater valve useless, and this basket can be readily lifted out and cleaned.

The outlet of the drain is within  $2\frac{1}{2}$  inches of the top of the floor. This allows the sewer several inches more fall than any other form of floor drain.

Size	Outlet	Each
16 x 16 x 10, 4 inch Cast Iron		\$13.00
14 x 14 x 10, 4 inch Cast Iron		12.00
14 x 14 x 10, 3 inch Cast Iron		11.00
10 x 10 x 8, 3 inch Cast Iron		9.00
10 x 10 x 8, 2 inch Cast Iron		8.00
24 x 24 x 12, 6 inch Cast Iron, special size		20.00

Add 50 cents net for extra heavy covers.

FIG. H-1623—"NATIONAL" FLOOR AND STABLE DRAIN (Not illustrated).

The National Floor and Stable Drain is made all in one piece of Cast Iron, and there is no cement joint between the floor drain and the trap for sewerage to escape beneath the concrete. It is provided with a perforated interior basket, which prevents straw or rubbish getting into sewer and clogging it, and this basket can be readily lifted out and cleaned.

The outlet of the drain is within  $2\frac{1}{2}$  inches of the top of the floor. This allows the sewer several inches more fall than any other form of floor drain.

Size	Outlet	Each
16 x 16 x 10, 4 inch Cast Iron		\$10.00
14 x 14 x 10, 4 inch Cast Iron		9.00
14 x 14 x 10, 3 inch Cast Iron		8.00
10 x 10 x 8, 3 inch Cast Iron		6.00
10 x 10 x 8, 2 inch Cast Iron		4.50
24 x 24 x 12, 6 inch Cast Iron, special size		18.00

Add 50 cents net for extra heavy covers.

CELLAR DRAINERS

"PERFECTION"

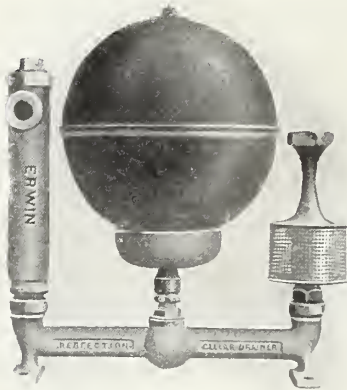


FIG. H-1624

FIG. H-1624

PERFECTION CELLAR DRAINERS

DIMENSIONS

18 inches Long; 12 inches Wide;  
20 inches High.

Number	1	2	3
Capacity per hour, gals	400	800	1500
Size Supply Pipe, in	$\frac{3}{4}$	$\frac{3}{4}$	1
Size Discharge Pipe, in	1	$1\frac{1}{2}$	2
Each	\$20.00	25.00	30.00

FIG. H-1625

CLIMAX CELLAR DRAINERS  
WITH AUTOMATIC ATTACHMENT

Number	1	2
Capacity per hour, gals	50 to 250	100 to 400
Size Supply Pipe, in	$\frac{1}{2}$	$\frac{3}{4}$
Size Discharge Pipe, in	1	$1\frac{1}{4}$
Each	\$25.00	40.00
Without Automatic Attachment, each	15.00	25.00
Number	3	4
Capacity per hour, gals	150 to 600	200 to 800
Size Supply Pipe, in	1	$1\frac{1}{4}$
Size Discharge Pipe, in	$1\frac{1}{2}$	2
Each	\$55.00	80.00
Without Automatic Attachment, each	35.00	50.00
Number	5	6
Capacity per hour, gals	275 to 1000	350 to 1200
Size Supply Pipe, in	$1\frac{1}{2}$	2
Size Discharge Pipe, in	$2\frac{1}{2}$	3
Each	\$110.00	160.00
Without Automatic Attachment, each	70.00	100.00

For pressures 15 to 80 pounds.  
Lifting 6 to 12 feet.

"CLIMAX"

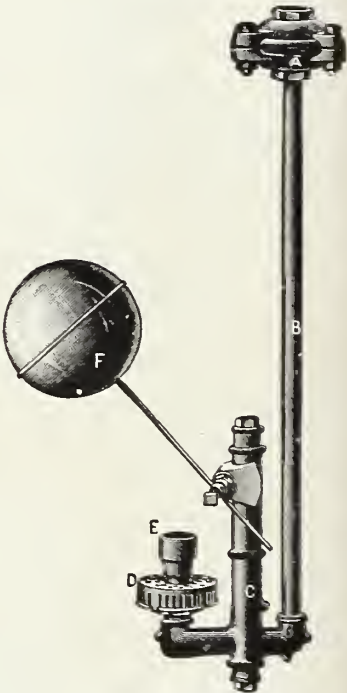


FIG. H-1625



## DRINKING FOUNTAINS

HORSE

WITH OVERFLOW—NO COCK

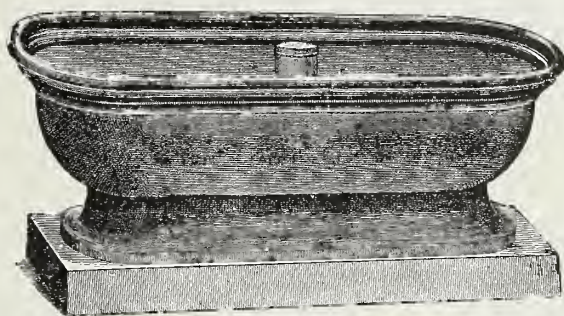


FIG. H-1626

No. 8—To Fasten to Stone, Painted	\$45.00
No. 9—To Fasten to Stone, Bronzed	51.00

The above prices do not include Stone Base.

## MAN, HORSE AND DOG



FIG. H-1627

## VERY HEAVY

5 feet 4 inches high—base 22 inches diameter. This Drinking Fountain is particularly adapted for cities, being Extra Heavy, resists the knocks and jars of heavy trucks, and is also plumbed with self-closing faucet, regulating the flow of water.

	Painted	one Coat	Bronzed
To Fasten on Stone	\$150.00	160.00	
To Go in Ground	165.00	175.00	

Without Ball Cocks, allowing Water to run continuously, deduct \$20.00.



# WATER FILTERS

"HUB"

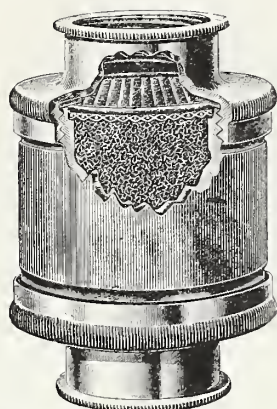


FIG. H-1628

"MYSTIC"



FIG. H-1629

Per dozen ..... \$9.00

Per dozen ..... \$6.00

$\frac{10}{16}$  is the required size for a  $\frac{1}{2}$  inch, the  $\frac{12}{16}$  for a  $\frac{5}{8}$ , and the  $\frac{15}{16}$  for a  $\frac{3}{4}$  Plain Bibb.

Plain Bibb Attachment, per dozen .....	\$3.50
Wire Strainers, Cloth, per square foot .....	1.00
Wire Strainers for "Hub," per dozen .....	.55
Wire Strainers for "Mystic," per dozen .....	.45
Quartz Filtering Material, 10 lb. box .....	1.00
Bone Filtering Material, small box .....	1.00
Rubber Packing "Hub" (inside), per dozen .....	.35
Rubber Packing, "Mystic" (inside), per dozen .....	.30
Rubber Washers for Bibb Nozzle, per dozen .....	.10

"REVERSIBLE"



FIG. H-1630

No. 4



FIG. H-1631

"HYGIENIC"  
GLASS



FIG. H-1632

"CROTON"



FIG. H-1633

For  $\frac{3}{4}$  and  $\frac{1}{2}$  inch Hose Bibbs only.

Per dozen ..... \$3.10

Per dozen ..... \$1.50

Per dozen ..... \$6.50

Polished  
Brass, per  
doz ..... \$5.00  
N. P., per doz 6.00

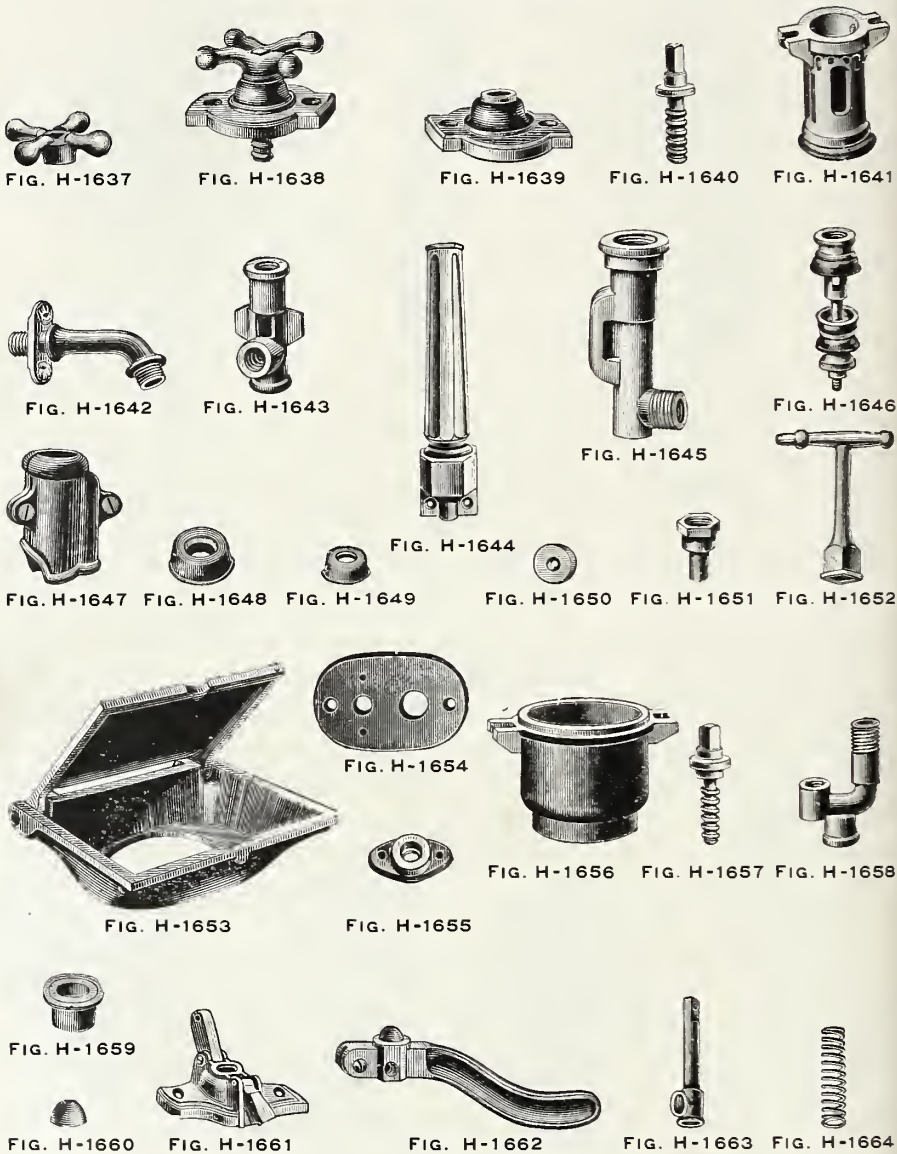
**"TOTAL ECLIPSE" HYDRANTS AND STREET WASHERS****WHEEL TOP HYDRANT      SELF-CLOSING HYDRANT****No. 1****FIG. H-1634****No. 7****FIG. H-1635****STREET WASHER  
No. 36****FIG. H-1636**

To set in ground, feet .....	1½	2	3	4	5	6	8	10
Figure H-1634—¾ inch, each.....	\$9.80	10.10	10.60	11.00	11.50	12.10	13.50	16.00
Figure H-1634—1 inch, each.....	12.70	13.50	14.30	14.75	15.30	16.00	18.50	21.00
Figure H-1634—1¼ inch, each.....	19.70	20.50	21.80	22.25	22.80	23.75	27.00	30.00
Figure H-1635—¾ inch, each.....	\$10.80	11.10	11.60	12.00	12.50	13.10	14.50	17.00
Figure H-1635—1 inch, each.....	13.70	14.50	15.30	15.75	16.30	17.00	19.50	22.00
Figure H-1636—¾ inch, each.....	\$6.60	6.85	7.35	7.75	8.25	8.85	10.25	12.75
Figure H-1636—1 inch, each.....	9.50	10.25	11.10	11.70	12.00	12.75	15.25	17.75
Figure H-1636—1¼ inch, each.....	18.00	18.75	20.10	20.70	21.00	21.75	25.25	28.75

In ordering be careful to state whether connections are wanted for Lead or Iron Pipe.

For Repairs, see pages 562 and 563.

REPAIRS FOR "TOTAL ECLIPSE" HYDRANTS  
AND STREET WASHERS



See following page for list prices.

## REPAIRS FOR "TOTAL ECLIPSE" HYDRANTS AND STREET WASHERS

Size Hydrant or Street Washer, inches		$\frac{3}{4}$	1	$1\frac{1}{4}$
Fig. H-1637—Hydrant Handles, each	No. 134	.20	No. 135 .20	No. 135 .20
Fig. H-1638—Hydrant Handles, with Cap and Screw, each	No. 130	.70	No. 131 1.00	No. 131 1.00
Fig. H-1639—Hydrant Caps, each	No. 124	.15	No. 125 .25	No. 125 .25
Fig. H-1640—Hydrant Screws, each	No. 137	.35	No. 138 .35	No. 138 .35
Fig. H-1641—Hydrant Nozzle Sections, each	No. 315	.60	No. 316 .70	
Fig. H-1642—Hydrant Nozzles, with Plate, each	No. 320	.40	No. 321 .50	
Fig. H-1643—Hydrant Nozzle Couplings, ea	No. 318	.45	No. 319 .60	
Fig. H-1644—Hydrant Casings, each half	No. 182	.60	No. 183 .75	No. 184 1.00
Fig. H-1645—Brass Valve Bodies for Hydrant or Street Washer, each	No. 300	1.25	No. 301 1.75	
Fig. H-1645—Brass Valve Bodies, for S. C. Hydrants, each	No. 430	1.25	No. 431 1.75	
Fig. H-1646—Valve Plungers, for Hydrant or Street Washer, each	No. 305	.50	No. 306 .75	
Fig. H-1646—Valve Plungers, for S. C. Hy- drants, each	No. 434	.75	No. 435 1.00	
Fig. H-1647—Sand Cups, for Hydrant or Street Washer, each	No. 115	.20	No. 116 .30	No. 117 .50
Fig. H-1648—Large Valve Cup Washers, for Hyd'nt or St. Wash., each	No. 325	.15	No. 326 .20	
Fig. H-1649—Small Valve Cup Washers, for Hyd'nt or St. Wash., each	No. 327	.10	No. 327a .15	No. 327b .20
Fig. H-1650—Seat Washers, for Hydrant or Street Washer, each	No. 328	.06	No. 329 .06	No. 329a .06
Fig. H-1651—Tail Couplings, for Hydrant or Street Washer, each	No. 161	.30	No. 162 .40	No. 163 .50
Fig. H-1652—Street Washer Keys, each	No. 159	.20	No. 160 .20	No. 160 .20
Fig. H-1653—Street Washer Boxes, each	No. 330	.50	No. 332 .70	No. 333 1.00
Fig. H-1654—Street Washer Plates, each	No. 335	.20		
Fig. H-1655—Street Washer Caps, each	No. 338	.10		
Fig. H-1656—Street Washer Necks, each	No. 342	.30		
Fig. H-1657—Street Washer Screws, each	No. 141	.35	No. 142 .35	No. 142 .35
Fig. H-1658—Street Washer Nozzle Sections, each	No. 340	.50		
Fig. H-1659—Iron Bushings, for Hydrants, each	No. 353	.10	No. 354 .20	
Fig. H-1660—Half Rubber Balls for Seat, for S. C. Hydrants, each	No. 418	.15	No. 419 .20	
Fig. H-1661—Cap with Brass Connection, for S. C. Hydrants, each	No. 400	.50	No. 401 .60	
Fig. H-1662—Handles with Screws, for S. C. Hydrants, each	No. 404	.50	No. 405 .60	
Fig. H-1663—Brass Stems, for S. C. Hyd'nts, each	No. 408	.50	No. 409 .60	
Fig. H-1664—Steel Springs, for S. C. Hyd'ts, each	No. 415	.20	No. 416 .30	



# "CRESCENT" HYDRANTS AND STREET WASHERS

HYDRANT



FIG. H-1665

STREET WASHER



FIG. H-1666

Length to Set in Ground, inches .....	18	24	30	36	42
Fig. H-1665— $\frac{3}{4}$ inch "Crescent" Hydrant, each .....	\$9.80	10.10	10.35	10.60	10.80
Fig. H-1666— $\frac{3}{4}$ inch "Crescent" Street Washer, ea. ....	6.60	6.85	7.10	7.35	7.55
Length to Set in Ground, inches .....	48	54	60	72	
Fig. H-1665— $\frac{3}{4}$ inch "Crescent" Hydrant, each .....	\$11.00	11.25	11.50	12.10	
Fig. H-1666— $\frac{3}{4}$ inch "Crescent" Street Washer, each .....	7.75	8.00	8.25	8.85	
Street Washer Keys, each .....					.20

WALL HYDRANT AND WASH PAVE

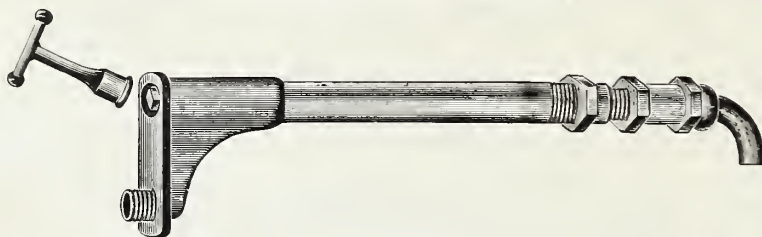
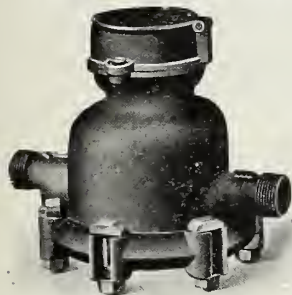


FIG. H-1667

For Walls, size, inches .....	12	16	21	27
$\frac{3}{4}$ inch Inlet and Outlet .....	\$4.25	4.50	4.75	5.00
Extra Keys, each .....				.20



**"HERSEY" WATER METERS****"HERSEY" DISC METER****FIG. H-1668**

The "Hersey" Disc Meter is constructed of the very best non-corrosive materials. All screws, spindles, and shafts are of phosphor bronze, and the piston is of the highest grade hard rubber, making the meter practically indestructible. All parts are interchangeable.

Each meter from  $\frac{5}{8}$  inch to 2 inches inclusive is provided with a perforated strainer located in such a position as to exclude all foreign matter from the working parts.

The superior workmanship, quality of material, and accuracy of registration have made this meter most popular.

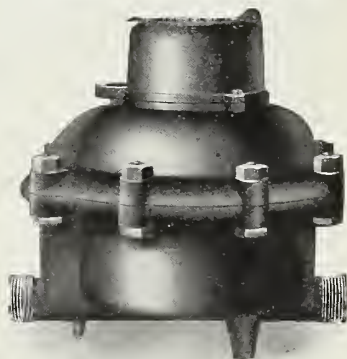
**FIG. H-1668**

Size, inches.	Greatest Proper Quantity per minute.	Length, inches.	Height, inches.	Width, inches.	Net Weight, Lbs.	Weight, Boxed, Lbs.	Each.
$\frac{5}{8}$	2 cubic ft. or 15 gal.	$7\frac{3}{8}$	$6\frac{1}{4}$	$5\frac{1}{2}$	8	12	\$9.00
$\frac{3}{4}$	4 cubic ft. or 30 gal.	9	7	7	12	19	13.00
1	8 cubic ft. or 60 gal.	$10\frac{7}{8}$	$7\frac{1}{4}$	8	16	28	18.00
$1\frac{1}{2}$	12 cubic ft. or 90 gal.	$12\frac{5}{8}$	$8\frac{1}{4}$	$11\frac{1}{8}$	44	65	30.00
2	20 cubic ft. or 150 gal.	$15\frac{1}{4}$	11	$12\frac{1}{8}$	69	96	50.00
3	36 cubic ft. or 270 gal.	24	$16\frac{5}{8}$	$18\frac{1}{8}$	226	277	90.00
4	72 cubic ft. or 540 gal.	29	$19\frac{3}{4}$	22	387	461	175.00
6	120 cubic ft. or 900 gal.	$36\frac{1}{2}$	25	$27\frac{3}{4}$	775	863	375.00

**"HERSEY" ROTARY METER****FIG. H-1669**

The "Hersey" Rotary Meter is a type of meter quite distinct from any other. The measuring chamber is practically indestructible from wear; consequently it can be maintained in repair at a cost much lower than any other meter in existence.

The material, workmanship and design of this meter are unsurpassed; it has been used for a long term of years, and has thus stood the test of time. Each meter from  $\frac{5}{8}$  inch to 2 inches inclusive is fitted with a perforated strainer. All parts are of the best non-corrosive materials, and are interchangeable.

**FIG. H-1669**

Size, inches.	Greatest Proper Quantity per minute.	Length, inches.	Height, inches.	Width, inches.	Net Weight, Lbs.	Weight, Boxed, Lbs.	Each.
$\frac{5}{8}$	2 cubic ft. or 15 gal.	$7\frac{3}{8}$	8	7	14	20	\$13.00
$\frac{3}{4}$	4 cubic ft. or 30 gal.	9	$8\frac{3}{4}$	8	22	30	23.00
1	8 cubic ft. or 60 gal.	$11\frac{5}{8}$	10	$10\frac{3}{8}$	37	47	33.00
$1\frac{1}{2}$	12 cubic ft. or 90 gal.	$12\frac{5}{8}$	11	$12\frac{1}{8}$	66	90	50.00
2	20 cubic ft. or 150 gal.	$15\frac{1}{4}$	$12\frac{1}{2}$	$13\frac{1}{2}$	109	146	70.00
3	36 cubic ft. or 270 gal.	24	$16\frac{5}{8}$	$18\frac{1}{8}$	251	302	135.00
4	72 cubic ft. or 540 gal.	29	$19\frac{3}{4}$	22	416	490	250.00
6	120 cubic ft. or 900 gal.	$36\frac{1}{2}$	25	$27\frac{3}{4}$	819	907	500.00

MUELLER'S WATER PIPE TAPPING MACHINES

THE "MUELLER"

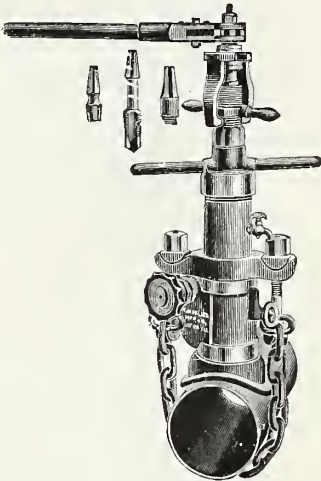


FIG. H-1671

INCLUDES

- 1 each Combined Drill and Tap,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ , 1 inch.
- 1 each Screw or Hexagon Plug,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ , 1 inch.
- 4 Malleable Iron Saddles, any size.
- 1 Chain for any size Pipe.

Each ----- \$100.00

EXTRA PARTS

- $\frac{3}{8}$  inch Combined Drills and Taps, each ----- \$3.75
- $\frac{1}{2}$  inch Combined Drills and Taps, each ----- 4.00
- $\frac{5}{8}$  inch Combined Drills and Taps, each ----- 4.50
- $\frac{3}{4}$  inch Combined Drills and Taps, each ----- 5.50
- 1 inch Combined Drills and Taps, each ----- 6.50
- Hexagon Plugs, any size, each .60
- Screw Plugs, any size, each .60
- Malleable Iron Saddles, any size, each ----- 1.00
- $4\frac{1}{2}$  inch Rubber Gaskets, each .25
- $6\frac{1}{2}$  inch Rubber Gaskets, each 1.25
- Power Clevis ----- 5.00

THE "COLUMBIA"

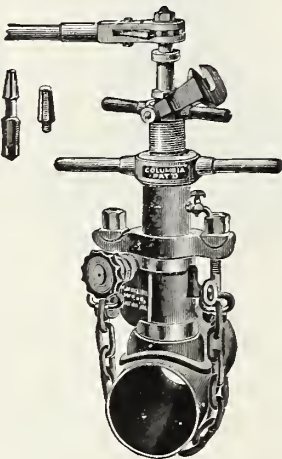


FIG. H-1672

INCLUDES

- 1 each Combined Drill and Tap,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ , 1 inch.
- 1 each Screw or Hexagon Plug,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ , 1 inch.
- 4 Malleable Iron Saddles, any size.
- 1 Chain for any size Pipe.

Each ----- \$100.00

EXTRA PARTS

- $\frac{3}{8}$  inch Combined Drills and Taps, each ----- \$3.75
- $\frac{1}{2}$  inch Combined Drills and Taps, each ----- 4.00
- $\frac{5}{8}$  inch Combined Drills and Taps, each ----- 4.50
- $\frac{3}{4}$  inch Combined Drills and Taps, each ----- 5.50
- 1 inch Combined Drills and Taps, each ----- 6.50
- Hexagon Plugs, any size, each .60
- Screw Plugs, any size, each .60
- Malleable Iron Saddles, any size, each ----- 1.15
- Small Rubber Gaskets, for Saddles, each ----- .30
- Large Rubber Gaskets, for Saddles, each ----- 1.35
- Power Clevis ----- 5.35

## "NEW ECLIPSE" TAPPING MACHINE

FOR TAPPING WATER MAINS OR OTHER PIPES UNDER PRESSURE

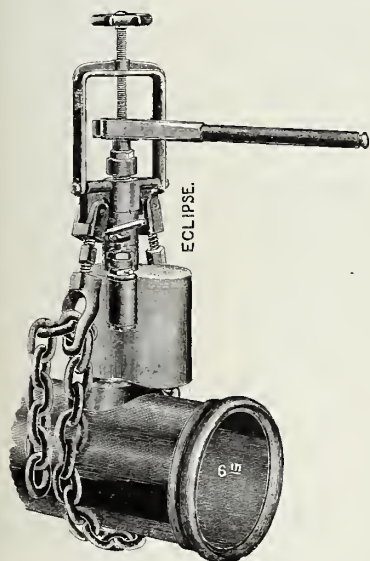


FIG. H-1673

This new invention eclipses all other Tapping Machines for tapping water mains or other pipes under high pressure. It is reduced to the acme of perfection and simplicity, having neither valve or pet cock to get out of order and no revolving head to get sprung or joint to leak. The pressure or strain of the feed screw pulls directly on the chain, thereby relieving the machine of all undue strain. These machines are made of the best bronze metal. The saddles are made of malleable iron and will not break. We make two sizes of this machine No. 1 will tap all sizes up to and including 1 inch; No. 2 will tap all sizes up to and including 2 inch. For tapping gas mains the No. 1 machine will tap and put in a 2 inch plug; a No. 2 machine will tap and put in a 4 inch plug without the escape of gas.

Our Eclipse No. 1, with 1 inch tap and cock, saddle and chain for 6 inch pipe, everything that you would have to carry to make a 1 inch tap complete weighs 24 lbs. Our Eclipse No. 2 with all appliances for making a 2 inch tap weighs 35 pounds.

EVERY MACHINE TESTED TO 600 LBS. TO THE SQ. IN. AND GUARANTEED

This machine taps on the top or side or at any angle desired.

No. 1 complete with $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$ and 1 inch taps and four saddles .....	\$100.00
No. 2 complete with 1, $1\frac{1}{4}$ , $1\frac{1}{2}$ and 2 inch taps and four saddles .....	150.00

The  $\frac{3}{4}$  inch tap puts in the  $\frac{5}{8}$  corporation cocks, as the shanks of these are of the same size and same thread as the  $\frac{3}{4}$ . (The No. 2 machine will tap all the small sizes by getting the taps and mandrels extra).

### PRICE LIST OF EXTRA TOOLS

$\frac{1}{4}$  inch tap, \$3.00;  $\frac{3}{8}$  inch tap, \$3.00;  $\frac{1}{2}$  inch tap, \$4.00;  $\frac{5}{8}$  and  $\frac{3}{4}$  inch taps, \$4.50; 1 inch tap, \$5.00;  $1\frac{1}{4}$  inch tap, \$6.00;  $1\frac{1}{2}$  inch tap, \$7.00; 2 inch tap, \$8.00. Mandrels, \$1.00 each; saddles, \$1.00; chain, \$1.00; tightening bolts, 25 cents each; harps, 25 cents each; clevises, 25 cents each; feeder yoke, \$1.00; steel feeder screws, \$1.00; malleable spanner wrenches, 25 cents; cross wrench, 50 cents; rubber gaskets, 10 cents, each; C. I. gasket, 8 cents; crane for No. 1 machine, 50 cents; No. 2, 50 cents; folding handle, 50 cents; crane post, 25 cents; stuffing box gland, 50 cents; extra heavy ratchet (No. 3), \$5.00.

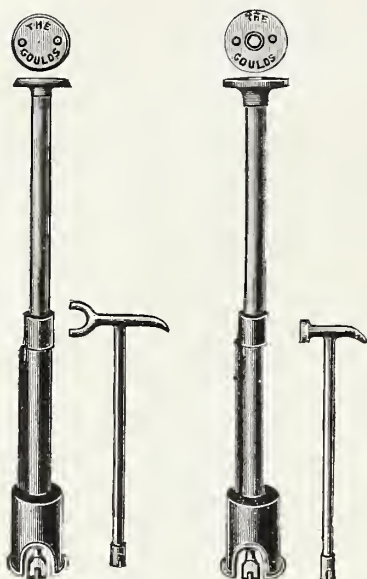


FIG. H-1674

FIG. H-1675

## ADJUSTABLE CURB BOXES

FIGS. H-1674 AND H-1675

No.	Extension.	Top Section.	Each.
1	48 to 62 inches.	1 in. Pipe.	\$3.00
2	58 to 72 inches.	1 in. Pipe.	3.40
3	70 to 84 inches.	1 in. Pipe.	3.75

Keys only furnished when ordered. at  
extra, each ..... .50

FIG. H-1676

## NEW STYLE

Diameter of Box,  $2\frac{1}{2}$  inches.

Size.	Extension.	Each.
88	1 ft. long.	.55
89-A	1 ft. to 1 ft. 8 in.	.60
90-B	1 ft. 6 in. to 2 ft. 2 in.	.65
91-C	1 ft. 9 in. to 2 ft. 9 in.	.70
92-C	2 ft. to 3 ft. 2 in.	.73
92-D	2 ft. to 3 ft. 6 in.	.75
93-D	3 ft. to 4 ft.	.80
93-E	3 ft. to 4 ft. 6 in.	.83
94-D	3 ft. 6 in. to 4 ft. 9 in.	.85
94-E	3 ft. 6 in. to 5 ft.	.90
95-E	4 ft. to 5 ft. 6 in.	\$1.00
100-E	4 ft. 6 in. to 6 ft.	1.05
100-F	4 ft. 6 in. to 6 ft. 6 in.	1.10
95-G	4 ft. to 7 ft.	1.20
100-G	4 ft. 6 in. to 7 ft. 6 in.	1.25

## OLD STYLE

Diameter of Box, 3 inches.

Size.	Extension. (Extreme Length.)	Each.
0	length, 10 in.	.65
1	1 ft. 1 in. to 1 ft. 9 in.	.80
$1\frac{1}{2}$	1 ft. 6 in. to 2 ft. 4 in.	.85
2	2 ft. to 3 ft. 3 in.	.90
3	2 ft. 8 in. to 4 ft.	\$1.00
4	2 ft. 10 in. to 4 ft. 10 in.	1.05
5	3 ft. 6 in. to 5 ft. 6 in.	1.15
7	4 ft. to 6 ft.	1.30

Keys for removing Covers, 3 cents each.

SERVICE BOXES FOR  
WATER AND GAS

FIG. H-1676



## ROADWAY BOXES

## SQUARE HEAD



FIG. H-1677

FIG. H-1677

## SQUARE HEAD ROADWAY BOXES

With Open Base,  $4\frac{1}{4}$  inch Shaft.

Size	Extension	Each
137	12 inches long.	\$1.40
138	16 inches long.	1.50
140-U	1 foot 6 inches to 2 feet 1 inch	1.60
142-S	2 feet 1 inch to 2 feet 11 inches	1.85
142-T	2 feet 5 inches to 3 feet 6 inches	1.95

FIG. H-1678

## ROUND HEAD ROADWAY BOXES

With Flange Base,  $4\frac{1}{4}$  inch Shaft.

Size	Extension	Each
41-Q	1 foot 6 inches to 2 feet	\$1.60
42-Q	2 feet 3 inches to 2 feet 10 inches	1.75
42-R	2 feet 3 inches to 3 feet 6 inches	1.95
43-R	2 feet 10 inches to 4 feet	2.05
44-R	3 feet 3 inches to 4 feet 6 inches	2.15
45-R	3 feet 10 inches to 5 feet	2.25

With Open Base,  $4\frac{1}{4}$  inch Shaft.

Size	Extension	Each
141-Q	1 foot 6 inches to 2 feet	\$1.60
142-Q	2 feet 3 inches to 2 feet 10 inches	1.75
142-R	2 feet 3 inches to 3 feet 6 inches	1.95
143-R	2 feet 10 inches to 4 feet	2.05
144-R	3 feet 3 inches to 4 feet 6 inches	2.15
145-R	3 feet 10 inches to 5 feet	2.25

Keys for removing Covers, 3 cents each.

## ROUND HEAD



FIG. H-1678



## EXTENSION VALVE BOXES



FIG. H-1679

## VALVE BOX EXTENSION



FIG. H-1679

## EXTENSION VALVE BOXES

5 $\frac{1}{4}$  INCH SHAFT WITH NO. 6 BASE

Size.	Each.	Extension.
AAA	\$2.20	Stationary length 1 ft. 5 in.
AA	2.55	Extends 1 ft. 10 to 2 ft. 4 in.
A	2.70	Extends 2 ft. 4 to 3 ft. 4 in.
B	2.85	Extends 3 ft. to 4 ft.
C	2.95	Extends 3 ft. 6 to 4 ft. 6 in.
CC	3.15	Extends 4 ft. to 5 ft.
D	3.30	Extends 3 ft. 6 to 5 ft. 6 in.
DD	3.50	Extends 4 ft. to 6 ft.
E	3.55	Extends 5 ft. to 6 ft.
F	3.70	Extends 5 ft. to 7 ft.
G	3.90	Extends 6 ft. to 7 ft.
H	4.05	Extends 6 ft. to 8 ft.

Above prices on Valve Boxes are with No. 6 Base.

With No. 4 Round Base, reduce price.....	.25
With No. 140 Dome Base, same as with No. 6.	
With No. 8 Round Base, add to price.....	.25
With No. 16 Round Base, add to price.....	\$1.25
With No. 16-24 Round Base, add to price.....	4.00
With No. 160 Oval Base, add to price.....	.35
With No. 162 Oval Base, add to price.....	1.25



FIG. H-1680

## NO. 6. ROUND BASE



FIG. H-1681

## NO. 6, OVAL BASE



FIG. H-1682

## FIG. H-1680—VALVE BOX EXTENSION

No. 58—For 5 $\frac{1}{4}$  inch Valve Box, increasing length 14 inches, each ..... .60

**KNOWLES SPECIAL DUPLEX PUMP**

PRESSURE PATTERN, FOR BOILER FEEDING, ETC.

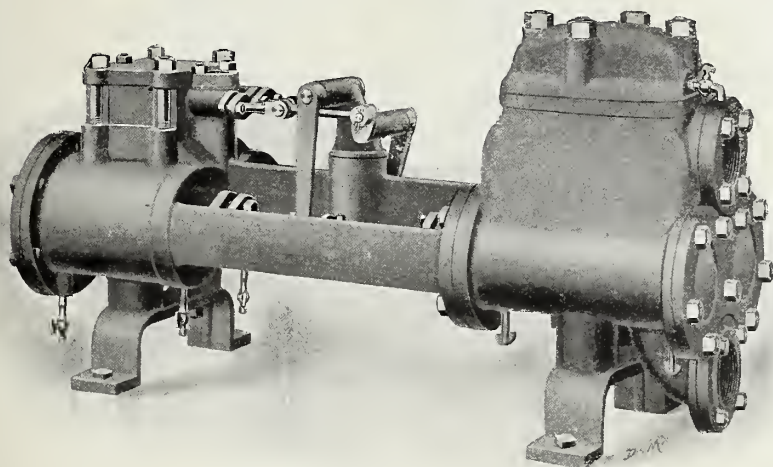


FIG. H-1683

The cut above shows one of our special pattern Duplex Pumps. These Pumps are provided with double acting water pistons, or with plungers, and are suitable for boiler feeding, fire service, or for general purposes. They are ordinarily made of piston pattern, and when so made are brass lined, and the water pistons are arranged so that the packing may be readily renewed when required.

Size				Maximum Water Pressure in Pounds	Shipping Weight, Pounds	List Price, Steel Fitted	List Price, Brass Fitted.
2	x	1 $\frac{1}{4}$	x 2 $\frac{3}{4}$	200	90	-----	\$45.00
3	x	2	x 3	200	150	\$55.00	60.00
4 $\frac{1}{2}$	x	2 $\frac{3}{4}$	x 4	200	320	90.00	100.00
5 $\frac{1}{4}$	x	3 $\frac{1}{2}$	x 5	200	435	120.00	130.00
6	x	4	x 6	200	565	140.00	156.00
7 $\frac{1}{2}$	x	5	x 6	150	850	195.00	220.00
7 $\frac{1}{2}$	x	4 $\frac{1}{2}$	x 10	150	970	275.00	320.00
7 $\frac{1}{2}$	x	5 $\frac{1}{4}$	x 10	150	1000	280.00	330.00
8	x	5 $\frac{1}{4}$	x 10	150	1085	300.00	355.00
8	x	6	x 10	150	1275	380.00	455.00
9	x	5 $\frac{1}{4}$	x 10	150	1150	325.00	380.00
10	x	6	x 10	150	1500	415.00	490.00
10	x	6	x 12	150	1700	510.00	600.00
10	x	7	x 10	150	2550	515.00	600.00
10	x	7	x 12	150	2700	540.00	625.00
10	x	8 $\frac{1}{2}$	x 10	150	3550	655.00	740.00
12	x	7	x 10	150	3660	615.00	690.00
12	x	8 $\frac{1}{2}$	x 10	150	4100	700.00	775.00
12	x	10 $\frac{1}{4}$	x 10	150	4900	785.00	885.00

Also patterns for larger sizes.

**WORTHINGTON SPECIAL DUPLEX PUMP**

Same List as Knowles Special Duplex Pump.

## “NEW DUPLEX” BRONZE WATER LIFTER

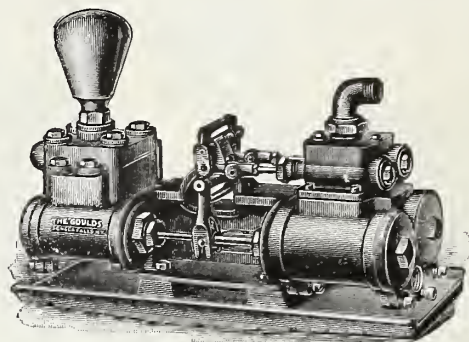


FIG. H-1684

Iron Brackets are provided to hold Lifter, and Drain Plugs are furnished to prevent freezing.

These Lifters are regularly fitted for Iron Pipe Connections, as listed below.  
Brass Bent Couplings for Lead Pipe furnished to order.

When Automatic Shut-off is not ordered we supply a Pressure Reducing Valve with each Lifter without extra charge.

Number.	DIAMETER OF CYLINDERS.		AT 30 REVOLUTIONS PER MINUTE.		Each.
	Power, inches.	Pump, inches.	Will Pump per Hour, gallons.	Will Exhaust per Hour, gallons.	
0	2	1½	165	295	\$40.00
1	2½	1½	165	460	40.00
3	2	2	295	295	42.50
4	2½	2	295	460	45.00

Number.	PIPE CONNECTIONS.			
	Power End.		Pump End.	
	*Supply, inches.	Exhaust, inches.	Suction, inches.	Discharge, inches.
0	½	¾	¾	½
1	¾	¾	¾	½
3	½	¾	¾	¾
4	¾	¾	¾	¾

\*If more than 10 feet of this pipe is required, a size larger than given in table should be used to avoid friction loss and consequent reduction of pressure.

## IMPROVED HOT AIR PUMPING ENGINES

## RIDER ENGINE

WITH COAL, KEROSENE OR GAS FURNACE

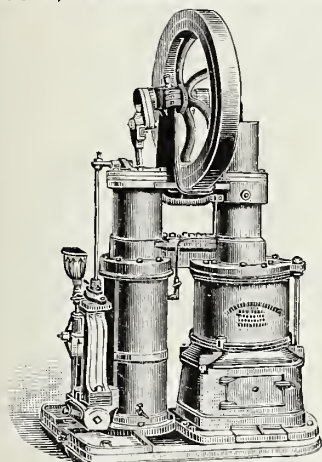


FIG. H-1685

## ERICSSON ENGINE

FOR COAL, KEROSENE OR GAS

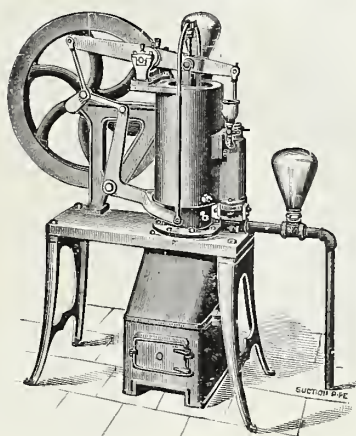


FIG. H-1686

## FIG. H-1685—IMPROVED RIDER ENGINES

Size, Diam. Cylinder in inches	Height to Top of Fly-wheel ft. in.	Floor-space ft. in.		Approximate Shipping Weights in lbs.	Revolutions per minute	Price, with Pump Attached to Engine	Extra for Deep-well Pump and Attachments
5	5	0	2 2 x 2 9	1,250	120 to 160	\$210.00	.....
6	6	0	2 4 x 3 4	2,000	100 to 120	300.00	\$20.00
8	7	2	2 5 x 3 11	3,200	100 to 120	420.00	20.00
10	7	9	2 8 x 4 4	3,700	80 to 110	540.00	20.00

## KEROSENE BURNERS AND TANK

\$10.00 for 5 inch; \$12.00 for 6 inch; \$15.00 for 8 and 10 inch.

The prices named above include engine, pump, air and vacuum chambers, wrench, shovel and poker, oil and oil-can; everything complete, ready for suction and discharge pipe, but do not include pipes of any kind.

## SIZE OF PIPE AND APPROXIMATE QUANTITY OF FUEL

Size of Cylinder, inches	Suction and Discharge Pipe, inches	Cubic Feet of Gas	Quarts of Kerosene per hour	Pounds Anthracite Coal, per hour
5	1	20	2	3
6	1 1/4	50	3	4 to 5
8	2	60	5	6 to 7
10	2 1/2	80	6	7 to 8

## FIG. H-1686—IMPROVED ERICSSON ENGINES

Size, Diam. Air-cylinder in inches	Floor-space ft. in.		Height ft. in.	Approx. Shipping Weights in Pounds	Price with Pump Attached to Engine	Extra for Deep-well Pump and Attachments
5	2 5 x 1 4	4	2	550	\$120.00	.....
6	3 6 x 2 0	4	5 1/2	800	170.00	\$10.00
8	4 0 x 2 2	5	5 1/2	1,000	210.00	15.00
10	4 4 x 3 2	5	6	1,700	300.00	20.00

## KEROSENE BURNERS AND TANK

5, 6 and 8 inch, \$10.00 extra; 10 inch, \$12.00.

The above prices include engine, pump, air-chamber, vacuum-chamber, furnace-wrench, oil-can and oil, but no pipes of any kind.

## SIZE OF PIPE AND APPROXIMATE QUANTITY OF FUEL

Size of Cylinder, inches	Suction and Discharge Pipe, inches	Cubic Feet of Gas	Quarts of Kerosene per hour	Pounds Anthracite Coal per hour
5	3/4	12	1	3
6	1	16	2	3
8	1 1/4	20	2	4
10	1 1/2	50	3	5



## OPEN OR CLOSED TOP PITCHER SPOUT PUMP

FIG. H-1687

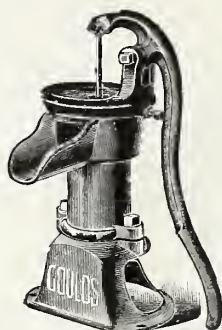


FIG. H-1687

Long Lever. Revolving open bearer top, held in place by set Screw. Cylinder with open Spout. High bolted Base. Fitted for lead or wrought iron Pipe, or both, as ordered.

Number	1	2	3	4	5	6
Diameter, Cylinder, in	2½	3	3½	4	4½	5
Suction, inches	1	1¼	1½	1½	2	2½
Iron	\$4.25	4.75	5.25	6.25	9.50	17.00
*Brass-lined	6.50	7.25	8.00	9.00	12.50	22.50
*Porcelain-lined	6.50	7.25	8.00	9.00	12.50	22.50

\*Brass and Porcelain-lined Pumps have galvanized Plungers and Rods.

## CISTERN SUCTION PUMPS

FIG. H-1688



FIG. H-1688

Long Lever. Revolving bearer top held in place by Set Screw. Cylinder with round Spout having projection for holding Bucket. High bolted Base arranged for lead or wrought iron Pipe as ordered.

Number	0	1	2	3	4	5	6	8
Diam. Cylinder, in	2	2¼	2½	2¾	3	3¼	3½	4
Suction, inches	1	1	1¼	1½	1¾	1½	1½	2
Iron	\$3.50	4.00	4.50	5.00	5.50	6.50	8.00	10.00
Brass-lined	5.50	6.00	6.50	7.25	8.00	9.50	11.50	15.00
Brass Cylinder	5.50	6.00	7.00	8.00	10.00	13.00	18.00	25.00

FIG. H-1689

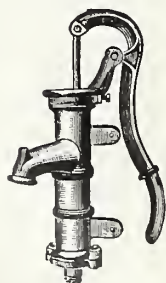


FIG. H-1689

Long Lever. Revolving bearer top held in place by set Screw. Cylinder with Brackets and Round Spout having projection for holding Bucket. Lower attachment fitted for lead or wrought iron Pipe, or both, as ordered.

Number	0	1	2	3	4	5	6
Diameter Cylinder, inches	2	2¼	2½	2¾	3	3¼	3½
Suction, inches	1	1	1¼	1½	1¾	1½	1½
Iron	\$3.50	4.00	4.50	5.00	5.50	6.50	8.00
Brass-lined	5.50	6.00	6.50	7.25	8.00	9.50	11.50
Brass Cylinder	5.50	6.00	7.00	8.00	10.00	13.00	18.00



## WELL PUMPS WITH SET LENGTHS

HEAVY  
PATTERN

FIG. H-1690

MEDIUM  
PATTERN

FIG. H-1691

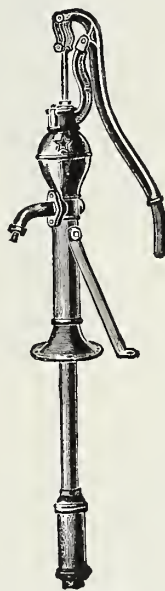


FIG. H-1692

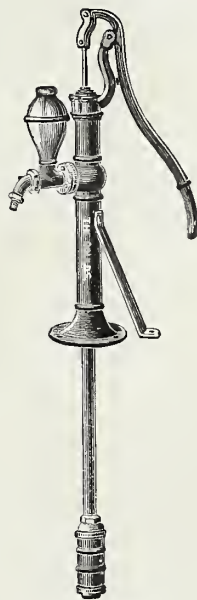


FIG. H-1693

Number	3	4	6
Cylinders, inches	10 x 2 $\frac{3}{4}$	10 x 3	10 x 3 $\frac{1}{2}$
Stroke, inches	6	6	6
Fig. H-1690—Iron Cylinder	\$9.50	9.75	10.75
Fig. H-1690—Brass Lined Cylinder	12.00	12.25	13.75
Fig. H-1691—Iron Cylinder	9.00	9.25	10.25
Fig. H-1691—Brass Lined Cylinder	11.50	11.75	13.25
Fig. H-1692—Iron Cylinder	12.75	13.00	14.00
Fig. H-1692—Brass Lined Cylinder	15.25	15.50	17.00
Fig. H-1693—Iron Cylinder	14.75	15.00	16.00
Fig. H-1693—Brass Lined Cylinder	17.25	17.50	19.00

# PUMP STANDARDS

WELL LIFT  
PUMP STANDARD

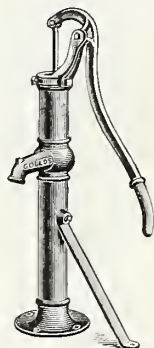


FIG. H-1694

WELL FORCE  
PUMP STANDARD

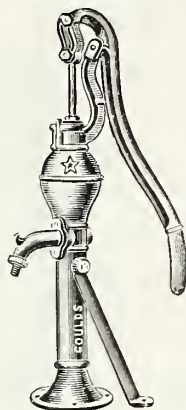


FIG. H-1695

WELL FORCE  
PUMP STANDARD  
WITH REVOLVING TOP  
AND SOLID BASE

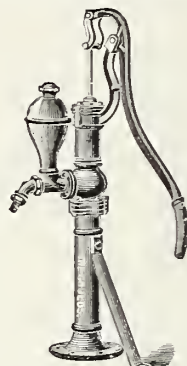


FIG. H-1696

FIG. H-1694

Light Lift Pump Standard. Revolving bearer top, with recess for priming. Cast standard. Tapped for pipe on the inside near base.

No. 3, 6 inch Stroke,  $1\frac{1}{4}$  inch Suction, each ..... \$4.50

FIG. H-1695

Medium and Heavy Force Standards. Long lever with links. Revolving tight bearer top. Iron standard with air chamber. Flanged spout with hose coupling, also outlet back of spout. Polished plunger rod. Tapped to take pipe near spout. Regularly  $1\frac{1}{4}$  but will tap for  $1\frac{1}{2}$  or 2 inches, *if so ordered*.

No. 1, 6 inch Stroke,  $1\frac{1}{4}$  inch Suction, each ..... \$9.00

No. 2, 6 inch Stroke,  $1\frac{1}{4}$  inch Suction, each ..... 10.00

FIG. H-1696

The Standard is built in two sections, with intermediate flange between, into which the suction pipe is screwed. This flange is interchangeable and can be screwed for any size of pipe up to and including  $2\frac{1}{2}$  inch, but always shipped as below unless otherwise ordered. Cock spout furnished at \$2.50 extra list.

6 inch Stroke,  $1\frac{1}{4}$  inch Suction, each ..... \$12.50

## PUMP STANDARDS

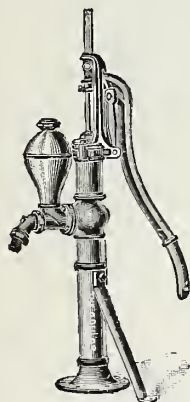
WELL LIFT  
PUMP STANDARD

FIG. H-1697

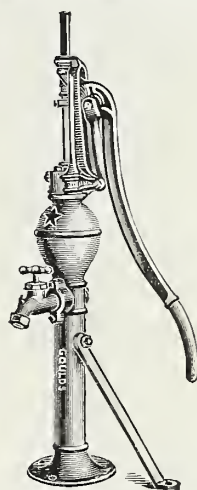
WELL FORCE  
PUMP STANDARD  
WITH AIR CHAMBER ON SPOUT  
FOR HAND OR WIND MILL

FIG. H-1698

FIG. H-1697

Long lever. Revolving wind mill top, held in place by two bolts. Standard tapped inside near spout, and for size pipe given in table unless otherwise ordered. Flanged air chamber. Discharge,  $1\frac{1}{4}$  inch pipe and  $\frac{3}{4}$  inch hose. Windmill slide not furnished unless specially ordered.

---

6 inch Stroke, $1\frac{1}{4}$ inch Suction, each	-----	\$13.00
10 inch Stroke, 2 inch Suction, each	-----	14.00

---

FIG. H-1698

The Standard is built in two sections, with intermediate flange, which is a great convenience in making pipe connections near the spout.

The intermediate flange can be cut for any size of pipe up to and including  $2\frac{1}{2}$  inch, but always shipped as below unless otherwise ordered. Pumps tapped for 2 inch pipe have coupling for 1 inch wood rod.

Wind mill slides are not furnished unless specially ordered.

---

6 inch Stroke, $1\frac{1}{4}$ inch Suction, each	-----	\$13.50
10 inch Stroke, 2 inch Suction, each	-----	14.50

---

HOUSE FORCE PUMPS

ON BASE

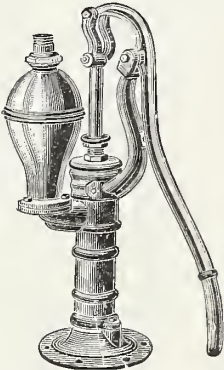


FIG. H-1699

ON PLANK

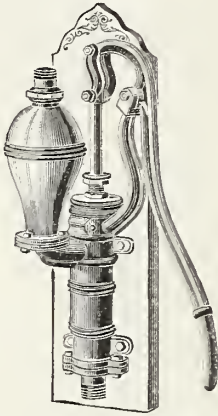


FIG. H-1700

FIGS. H-1699 AND H-1700

Number .....	1	2	3
Diameter Cylinder, inches .....	2 1/2	3	4
Suction, inches .....	1 1/4	1 1/2	2
Iron .....	\$10.00	12.00	20.00
Brass-lined .....	12.50	14.50	25.00
Brass Cylinder .....	14.50	17.00	32.00

ON BASE

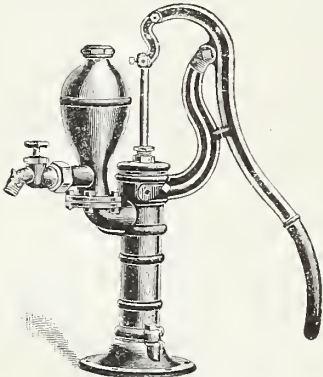


FIG. H-1701

ON PLANK

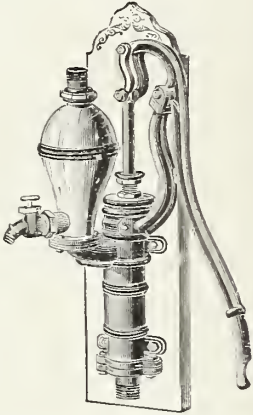


FIG. H-1702

FIGS. H-1701 AND H-1702

Number .....	1	2	3
Diameter Cylinder, inches .....	2 1/2	3	4
Suction, inches .....	1 1/4	1 1/2	2
Iron .....	\$12.50	14.50	22.50
Brass-lined .....	15.00	17.00	27.50
Brass Cylinder .....	17.00	19.50	34.50

## HOUSE FORCE PUMPS

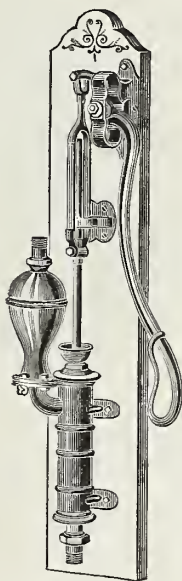


FIG. H-1703

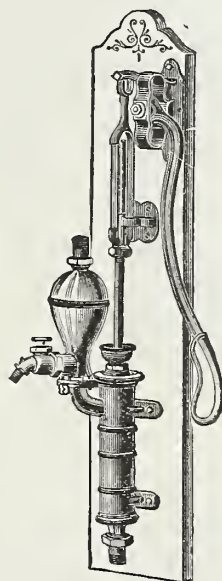


FIG. H-1704

FIG. H-1703

Number.....	1	2	3
Diameter Cylinder, inches .....	2	2½	3
Suction, inches .....	1	1¼	1½
Iron .....	\$17.00	17.50	18.50
Brass Cylinder .....	22.00	22.50	25.50
Brass Pump.....	28.00	32.00	37.00

FIG. H-1704

Number.....	1	2	3
Diameter Cylinder, inches .....	2	2½	3
Suction, inches .....	1	1¼	1½
Iron .....	\$19.50	20.00	21.00
Brass Cylinder .....	24.50	25.00	28.00
Brass Pump.....	33.00	37.00	42.00



# “ALERT” DOUBLE ACTING FORCE PUMP

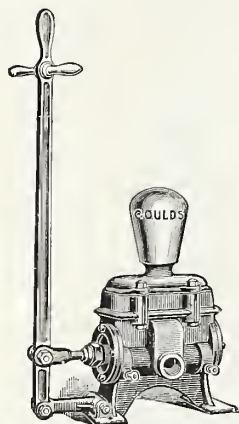


FIG. H-1705

Number	2	4	8	12
Diameter Cylinder, inches	2½	3	4	5
Suction, inches	1¼	1¼	1½	2
Discharge, inches	1	1	1¼	2
Iron	\$16.00	18.00	24.00	30.00
Brass Lined	18.50	21.00	28.00	35.00

Fitted for lead pipe or hose to order, at extra price.

## ROTARY FORCE PUMPS

HAND

POWER

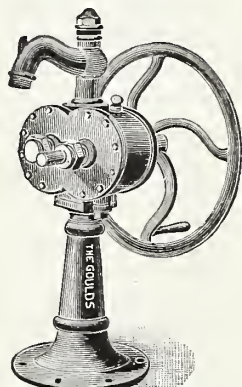


FIG. H-1706

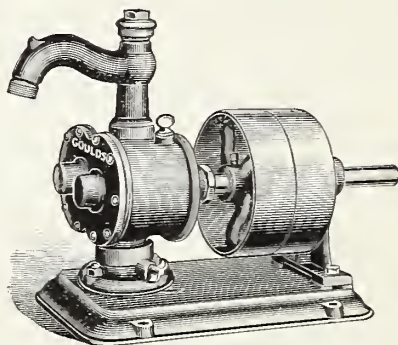


FIG. H-1707

Number	1	2	3	4	4a	5	5a	6
Suction, inches	1¼	1¼	1½	1½	1½	2	2	2½
Discharge, inches	1	1	1¼	1½	1½	2	2	2½
Iron	\$20.00	23.00	27.00	35.00	39.00	40.00	44.00	50.00
Bronze Case and Cams	42.00	47.00	52.00	65.00	69.00	75.00	79.00	100.00
Bronze	52.00	57.00	64.00	87.00	91.00	105.00	109.00	140.00

FIG. H-1707

Number	1	2	3	4	5	6
Suction, inches	1¼	1¼	1½	2	2	2½
Discharge, inches	1	1	1¼	1½	2	2½
Iron	\$27.00	32.00	38.00	48.00	54.00	80.00
Bronze Case and Cams	49.00	56.00	63.00	78.00	90.00	135.00
Bronze	60.00	65.00	75.00	100.00	120.00	175.00

## IMPROVED HYDRAULIC RAMS

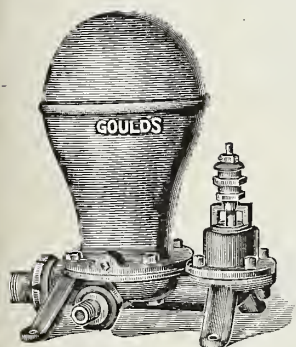


FIG. H-1708

Cast-iron Base with Drive and Discharge Pipe Connections. Flanged Iron Air Chamber. Brass Impetus Valve.

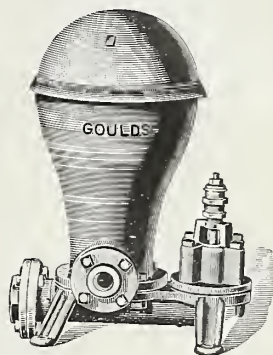


FIG. H-1709

FIG. H-1708

Size, number	2	3	4
Supply per minute to operate Ram, gallons	2 to 3	2 to 4	3 to 7
Length of Drive Pipe, feet	50 to 75	50 to 75	50 to 100
Pipes, Drive, inches	$\frac{3}{4}$	1	$1\frac{1}{4}$
Pipes, Discharge, inches	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$
Ram, with Leather Valve, each	\$9.00	11.00	14.00

FIG. H-1709

Size, number	5	6	7	8
Supply per minute to operate Ram, gallons	6 to 12	11 to 20	18 to 36	30 to 60
Length of Drive Pipe, feet	50 to 150	50 to 200	50 to 200	50 to 200
Pipes, Drive, inches	2	$2\frac{1}{2}$	3	4
Pipes, Discharge, inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Ram, with Leather Valve, each	\$22.00	45.00	80.00	130.00

Rams will work, and successfully, where the spring or brook is only eighteen inches higher than the Ram; yet, as the height or head increases, the more powerfully the Ram operates, and its ability to force water to a greater elevation and distance correspondingly strengthens.

A fall of 10 feet from the brook or spring to the Ram is sufficient to raise water to any point, say, 150 feet above the machine, while the same amount of fall would also raise water to a point considerably higher, though the quantity of water discharged will be proportionately diminished as the height and distance increase.

We recommend Drive Pipes to be 50 to 75 feet in length, though in very heavy lifts this may be advantageously increased to 125 and even 200 feet. In cases where this is not practicable the pipe may be bent in a coil five or six feet in diameter.

The quantity of water furnished a Ram, or amount requisite to operate it, is determined by the size and fall of head of Drive Pipe. Where the supply of water is limited there is no simpler or better plan of determining this quantity than to measure in pails or barrels the number of gallons which can be led in pipes from the spring or brook per minute or in any given length of time.

For ordinary purposes it is sufficient to say that in conveying water, say 50 or 60 rods, it may be safely calculated that one-seventh of the water can be raised and discharged at an elevation five times as high as the fall, or one-fourteenth part can be raised and discharged, say, ten times as high as the fall or height of Drive Pipe.

Thus, with a fall of five feet, for every 7 gallons drawn from the supply 1 may be raised 25 feet, or half a gallon 50 feet; or, with 10 feet fall, 1 gallon of every 14 may be raised to the height of 100 feet; and so in proportion as the fall or height is varied.

EDSON'S DIAPHRAGM PUMP

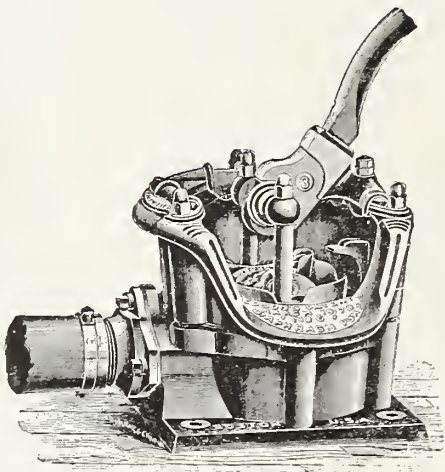


FIG. H-1710

WITH SIDE OUTLET

Number.....	2	3	4
Inlet, inches.....	2½	3	4
Each.....	\$19.00	24.00	35.00

WITH BOTTOM INLET

Number.....	2	3	4
Inlet, inches.....	2½	3	4
Each.....	\$14.00	16.00	25.00

EXTRAS

For Number.....	2	3	4
Suction Hose, per foot.....	\$1.25	1.50	2.25
Couplings, per set.....	2.75	3.50	5.75
Strainers, Flat.....	2.25	2.50	---
Strainers, Globe.....	3.50	3.50	---
Strainers, Galvanized.....	---	---	2.50

## PUMP CYLINDERS



FIG. H-1711



FIG. H-1712



FIG. H-1713



FIG. H-1714

Diameter and Length, inches.	Figs. H-1711 and H-1712 Stroke, in.	Figs. H-1713 and H-1714 Stroke, in.	Size Pipe, inches.	Iron.	Brass Lined, Brass Cage and Valve Plunger.	Brass Body, All Brass Plunger.	All Brass.
2 x 10 $\frac{1}{2}$	6	6	1 $\frac{1}{4}$	\$3.75	\$7.50	\$8.00	\$10.75
2 $\frac{1}{4}$ x 10 $\frac{1}{2}$	6	6	1 $\frac{1}{4}$	4.00	7.75	8.25	11.00
2 $\frac{1}{2}$ x 10 $\frac{1}{2}$	6	6	1 $\frac{1}{4}$	4.35	8.00	8.50	12.25
2 $\frac{3}{4}$ x 10 $\frac{1}{2}$	6	6	1 $\frac{1}{4}$	4.70	8.50	9.00	12.75
3 x 10 $\frac{1}{2}$	6	6	1 $\frac{1}{4}$	5.00	9.00	9.75	13.50
3 $\frac{1}{4}$ x 10 $\frac{1}{2}$	6	6	1 $\frac{1}{2}$	6.00	9.75	10.50	14.75
3 $\frac{1}{2}$ x 10 $\frac{1}{2}$	6	6	1 $\frac{1}{2}$	7.00	10.50	11.50	16.75
4 x 10 $\frac{1}{2}$	6	6	2	9.00	13.00	15.50	21.50
2 x 12	8	6	1 $\frac{1}{4}$	5.50	8.00	9.25	11.25
2 $\frac{1}{4}$ x 12	8	6	1 $\frac{1}{4}$	5.75	8.25	9.50	11.50
2 $\frac{1}{2}$ x 12	8	6	1 $\frac{1}{4}$	6.00	8.50	9.75	12.75
2 $\frac{3}{4}$ x 12	8	6	1 $\frac{1}{4}$	6.50	9.00	10.50	13.25
3 x 12	8	6	1 $\frac{1}{4}$	7.00	9.50	11.00	14.00
3 $\frac{1}{4}$ x 12	8	6	1 $\frac{1}{2}$	8.00	10.25	12.00	15.25
3 $\frac{1}{2}$ x 12	8	6	1 $\frac{1}{2}$	9.00	11.25	13.75	17.50
4 x 12	8	6	2	11.50	14.25	18.00	22.50
2 x 14	10	8	1 $\frac{1}{2}$	6.00	8.50	9.75	13.00
2 $\frac{1}{4}$ x 14	10	8	1 $\frac{1}{4}$	6.25	9.00	10.25	13.50
2 $\frac{1}{2}$ x 14	10	8	1 $\frac{1}{4}$	6.50	9.25	10.50	14.75
2 $\frac{3}{4}$ x 14	10	8	1 $\frac{1}{4}$	7.00	9.75	11.25	15.50
3 x 14	10	8	1 $\frac{1}{4}$	7.50	10.25	11.75	16.25
3 $\frac{1}{4}$ x 14	10	8	1 $\frac{1}{2}$	8.75	11.00	12.75	17.75
3 $\frac{1}{2}$ x 14	10	8	1 $\frac{1}{2}$	10.00	12.25	14.75	21.00
4 x 14	10	8	2	13.00	15.75	19.00	26.50
4 $\frac{1}{2}$ x 14	8	6	2	17.50	24.00	28.00	36.00
5 x 14	8	6	2 $\frac{1}{2}$	22.50	33.00	38.00	50.00
6 x 14	8	6	3	33.50	50.00	56.00	70.00
2 x 16	12	10	1 $\frac{1}{4}$	6.00	9.00	10.50	13.75
2 $\frac{1}{4}$ x 16	12	10	1 $\frac{1}{4}$	6.50	9.75	11.25	14.50
2 $\frac{1}{2}$ x 16	12	10	1 $\frac{1}{4}$	7.00	10.25	11.75	16.00
2 $\frac{3}{4}$ x 16	12	10	1 $\frac{1}{4}$	7.50	10.75	12.25	16.50
3 x 16	12	10	1 $\frac{1}{4}$	8.00	11.25	12.75	17.25
3 $\frac{1}{4}$ x 16	12	10	1 $\frac{1}{2}$	9.75	12.00	14.00	19.00
3 $\frac{1}{2}$ x 16	12	10	1 $\frac{1}{2}$	11.25	13.50	16.00	22.25
4 x 16	12	10	2	14.50	17.50	20.50	28.00
4 $\frac{1}{2}$ x 16	10	8	2	18.50	25.00	30.50	38.75
5 x 16	10	8	2 $\frac{1}{2}$	25.00	35.00	42.00	53.50
6 x 16	10	8	3	37.50	55.00	62.00	75.00
4 $\frac{1}{2}$ x 18	12	10	2	22.50	30.00	35.00	43.25
5 x 18	12	10	2 $\frac{1}{2}$	30.00	40.00	47.00	58.50
6 x 18	12	10	3	42.50	60.00	67.00	80.00
8 x 18	8	6	4	90.00	115.00	134.00	160.00



## FULL WAY BRASS JACKET DRIVE WELL POINTS

FIG. H-1715

Diam. Pipe, inches.	Length Jacket, inches.	Length Pipe, inches.	No. 60 Gauze per dozen.	No. 80 Gauze per dozen.	No. 90 Gauze per dozen.
1	18	24	\$33.00	\$46.00	\$52.00
1	24	30	42.00	56.00	64.00
1	36	42	60.00	76.00	88.00
1 $\frac{1}{4}$	14	20	30.00	42.00	50.00
1 $\frac{1}{4}$	18	24	36.00	52.00	60.00
1 $\frac{1}{4}$	24	30	46.00	64.00	75.00
1 $\frac{1}{4}$	30	36	56.00	76.00	90.00
1 $\frac{1}{4}$	36	42	66.00	88.00	105.00
1 $\frac{1}{4}$	42	48	76.00	100.00	120.00
1 $\frac{1}{2}$	18	24	48.00	65.00	78.00
1 $\frac{1}{2}$	24	30	60.00	80.00	96.00
1 $\frac{1}{2}$	30	36	72.00	95.00	114.00
1 $\frac{1}{2}$	36	42	84.00	110.00	132.00
1 $\frac{1}{2}$	42	48	96.00	125.00	150.00
1 $\frac{1}{2}$	60	66	132.00	170.00	204.00
1 $\frac{1}{2}$	66	72	144.00	185.00	222.00
2	18	24	75.00	94.00	110.00
2	24	30	90.00	112.00	132.00
2	30	36	105.00	130.00	154.00
2	36	42	120.00	148.00	176.00
2	42	48	135.00	166.00	198.00
2	54	60	165.00	202.00	242.00
2 $\frac{1}{2}$	30	36	180.00	230.00	260.00
2 $\frac{1}{2}$	42	48	230.00	300.00	340.00
2 $\frac{1}{2}$	66	72	330.00	440.00	500.00
3	30	36	240.00	310.00	340.00
3	42	48	300.00	390.00	430.00
4	36	48	480.00	560.00	600.00
4	60	72	630.00	760.00	840.00
4	84	96	780.00	960.00	1080.00

CON-  
STRUC-  
TIVE  
VIEW

FIG. H-1715

## WASHER DRIVE WELL POINTS

FIG. H-1716

Diam. Pipe, inches.	Length of Pipe.	No. of Holes.	No. 60 Gauze per dozen.	No. 90 Gauze per dozen.
1 $\frac{1}{4}$	20 in.	50	\$30.00	\$50.00
1 $\frac{1}{4}$	2 ft.	60	36.00	60.00
1 $\frac{1}{4}$	2 $\frac{1}{2}$ ft.	80	46.00	75.00
1 $\frac{1}{4}$	3 ft.	100	56.00	90.00
1 $\frac{1}{4}$	3 $\frac{1}{2}$ ft.	120	66.00	105.00
1 $\frac{1}{4}$	4 ft.	140	76.00	120.00
1 $\frac{1}{2}$	2 ft.	80	48.00	78.00
1 $\frac{1}{2}$	2 $\frac{1}{2}$ ft.	110	60.00	96.00
1 $\frac{1}{2}$	3 ft.	130	72.00	114.00
1 $\frac{1}{2}$	3 $\frac{1}{2}$ ft.	150	84.00	132.00
2	2 $\frac{1}{2}$ ft.	140	90.00	132.00
2	3 ft.	170	105.00	154.00
2	3 $\frac{1}{2}$ ft.	220	120.00	176.00



FIG. H-1716



## "ROOT" SPIRAL RIVETED BILGE PUMPS

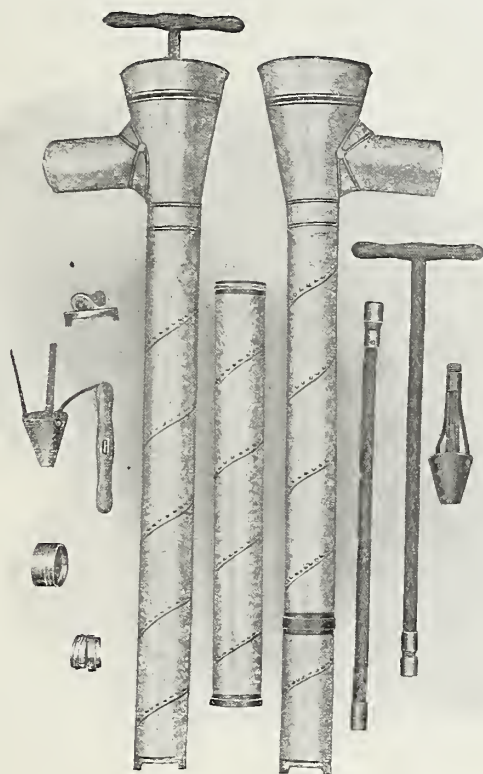


FIG. H-1717

Length of Bilge Pumps is measurement over all. From  $1\frac{1}{2}$  inches to  $2\frac{1}{2}$  inches diameter inclusive, Pump Barrels are of No. 28 BWG Spiral Lock Seam or Straight Seam Pipe; from 3 inches diameter up they are of No. 26 BWG Spiral Riveted Pipe. Heavier Barrels can be furnished at an extra cost. Pumps shorter than 5 feet, are charged as 5 feet.

□ Cut shows both Soldered and Screw Joint Pumps, also Extra Lengthening Section with Screw Joints and small parts as follows: Valve, Leather Plunger, Rod Handle, Brass Screw Couplings and complete Sectional Rod for Screw Joint Pumps.

Diameter, inches	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Soldered Joint Pumps, per lineal foot	.82	.89	.96	1.03
Brass Screw Couplings, per pair attached		\$2.55	3.00	4.10
Diameter, inches	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5
Soldered Joint Pumps, per lineal foot	\$1.10	1.18	1.25	1.48
Brass Screw Couplings, per pair attached	4.55	5.50	6.40	7.30
Pump Rods, per lineal foot				.08
Rod Handles, each				.25

## PUMP VALVES AND PLUNGERS

SINGLE  
CLAPPER VALVE

FIG. H-1718

DOUBLE  
CLAPPER VALVE

FIG. H-1719

OIL AND LIQUOR  
VALVE AND PLUNGER

FIG. H-1720

LEATHER PLUNGER  
FOR BOAT PUMPS

FIG. H-1721

FIG. H-1718—SINGLE CLAPPER VALVES

3	inch diameter, per dozen	\$2.25
3 $\frac{1}{4}$	inch diameter, per dozen	2.50
3 $\frac{1}{2}$	inch diameter, per dozen	3.00
4	inch diameter, per dozen	3.50

FIG. H-1719—DOUBLE CLAPPER VALVES

4	inch diameter, per dozen	\$3.75
4 $\frac{1}{2}$	inch diameter, per dozen	5.00
5	inch diameter, per dozen	6.00
5 $\frac{1}{2}$	inch diameter, per dozen	7.00
6	inch diameter, per dozen	8.50

IMPROVED PLUNGER VALVES [Not Illustrated]

3	inch diameter, per dozen	\$2.25
3 $\frac{1}{4}$	inch diameter, per dozen	2.50
3 $\frac{1}{2}$	inch diameter, per dozen	2.75
4	inch diameter, per dozen	3.00

FIG. H-1720—OIL AND LIQUOR VALVES AND PLUNGERS

1 $\frac{1}{4}$	inch diameter, per dozen pairs	\$2.25
1 $\frac{1}{2}$	inch diameter, per dozen pairs	2.50
1 $\frac{3}{4}$	inch diameter, per dozen pairs	2.75
2	inch diameter, per dozen pairs	3.00
2 $\frac{1}{2}$	inch diameter, per dozen pairs	3.50

FIG. H-1721—LEATHER PLUNGER FOR BOAT PUMPS

2	inch diameter, per dozen, net	\$1.40
2 $\frac{1}{2}$	inch diameter, per dozen, net	1.75
3	inch diameter, per dozen, net	2.15
3 $\frac{1}{2}$	inch diameter, per dozen, net	2.55
4	inch diameter, per dozen, net	3.00
4 $\frac{1}{2}$	inch diameter, per dozen, net	4.50
5	inch diameter, per dozen, net	5.25
5 $\frac{1}{2}$	inch diameter, per dozen, net	6.25
6	inch diameter, per dozen, net	7.25

## VALVE AND PLUNGER LEATHERS, ETC.

MADE OF PURE OAK-TANNED STOCK

RING PACKING  
FOR CYLINDERS

FIG. H-1722

PLUNGER LEATHER  
NOT CRIMPED

FIG. H-1723

LOWER VALVE LEATHER



FIG. H-1724

PLUNGER LEATHER  
CRIMPED

FIG. H-1725

## SIZES AND PRICES

Size, inches, (Diameter of Cylinders) .....	1½	1¾	2	2¼	2½	2¾	3	3¼
Ring Packings, for Cylinders, each .....	.10	.10	.10	.10	.10	.10	.10	.15
Plunger Leathers, not Crimped, each .....	.15	.15	.15	.15	.15	.15	.15	.20
Lower Valve Leathers, each .....	.15	.15	.15	.15	.15	.15	.15	.20
Plunger Leathers, Crimped, each .....	.15	.15	.15	.15	.15	.20	.25	.30

Size, inches, (Diameter of Cylinders) .....	3½	3¾	4	4½	5	6	8
Ring Packings, for Cylinders, each .....	.15	.15	.15	.20	.25	.30	.40
Plunger Leathers, not Crimped, each .....	.20	.20	.20	.25	.30	.35	.50
Lower Valve Leathers, each .....	.20	.20	.20	.25	.30	.35	.50
Plunger Leathers, Crimped, each .....	.35	.40	.45	.55	.60	.75	1.25

## PUMP ROD COUPLINGS



FIG. H-1726

Fitted for Rod .....	¾	7/16	¾x7/16	1/2
Threads to inch .....	14	12	14x12	12
Mal., per lb .....	.40	.40	.40	.26
Galv., per lb .....	.50	.50	.50	.35
Brass, per lb .....	1.00	1.00	1.00	1.00

## PUMP RODS

½ inch Sucker Rods, 5 ft. long .....	\$2.50
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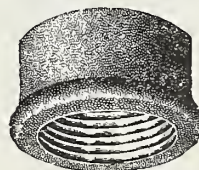
MALLEABLE IRON  
DRIVE WELL CAPS

FIG. H-1727

Size, inches .....	1¼	1½	2	2½	3
Each .....	.20	.24	.44	1.00	1.50

## FORBES PIPE MACHINES

NO. 30—HAND MACHINE

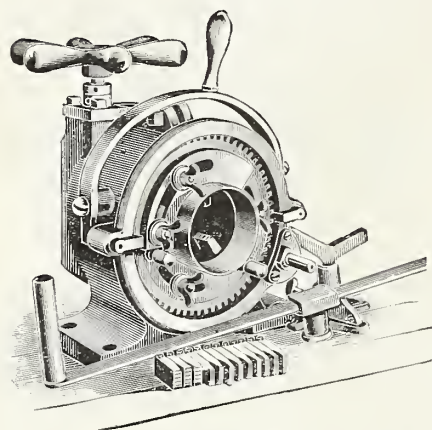


FIG. H-1728

NO. 78—HAND OR POWER MACHINE

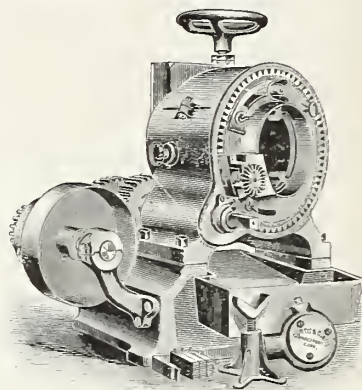


FIG. H-1729

## FORBES HAND MACHINES

No.	Range	Each
*30	$\frac{1}{4}$ to 2 in., both R. and L.	\$50.00
*32	$\frac{1}{4}$ to 2 in., for Solid Dies (without dies)	45.00
*34	1 to 3 in., R. H., 1 to 2 in., L. H.	75.00
*36	$\frac{3}{4}$ to 3 in., R. H., $\frac{3}{4}$ to 2 in., L. H.	85.00
*37	$\frac{1}{4}$ to 3 in., R. and L.	105.00
†46	$2\frac{1}{2}$ to 4 in., R. H.	85.00
*38	$1\frac{1}{2}$ to 4 in., R. H.	100.00
*40	$1\frac{1}{2}$ to 4 in., R. and L.	115.00
*42	1 to 4 in., R. H.	110.00
*44	1 to 4 in., R. and L.	130.00
†50	4 to 6 in., R. H.	115.00
†52	$3\frac{1}{2}$ to 6 in., R. H.	130.00
†54	$2\frac{1}{2}$ to 5 in., R. H.	150.00
†56	$2\frac{1}{2}$ to 6 in., R. H.	175.00
†62	$2\frac{1}{2}$ to 6 in., R. H., extra heavy	300.00
*58	1 to 6 in., R. H.	190.00
*60	1 to 6 in., R. and L.	235.00
*63	$2\frac{1}{2}$ to 8 in., R. and L.	360.00
†64	$2\frac{1}{2}$ to 8 in., R. H.	325.00
†66	$2\frac{1}{2}$ to 10 in., R. H.	500.00
*67	$2\frac{1}{2}$ to 10 in., R. H.	500.00
*68	$2\frac{1}{2}$ to 10 in., R. and L.	550.00

\*Pressure Feed Machine.

†Lead Screw Machine.

Nos. 30 to 37 have no cut-off attachment, unless specially ordered.

## FORBES HAND OR POWER MACHINES

No.	Range	Each
*70	$\frac{1}{4}$ to 2 in., R. and L.	\$100.00
*72	$\frac{1}{4}$ to 2 in., for Solid Dies (without dies)	95.00
*74	1 to 3 in., R. H., 1 to 2 in., L. H.	125.00
*76	$\frac{3}{4}$ to 3 in., R. H., $\frac{3}{4}$ to 2 in., L. H.	135.00
*77	$\frac{1}{4}$ to 3 in., R. and L.	155.00
†78	$2\frac{1}{2}$ to 4 in., R. H.	140.00
*80	$1\frac{1}{2}$ to 4 in., R. H.	150.00
*82	$1\frac{1}{2}$ to 4 in., R. and L.	165.00
*84	1 to 4 in., R. H.	160.00
*86	1 to 4 in., R. and L.	180.00
†88	4 to 6 in., R. H.	170.00
†90	$3\frac{1}{2}$ to 6 in., R. H.	180.00
†92	$2\frac{1}{2}$ to 5 in., R. H.	200.00
†94	$2\frac{1}{2}$ to 6 in., R. H.	225.00
*96	1 to 6 in., R. H.	250.00
*98	1 to 6 in., R. and L.	285.00
*99	$2\frac{1}{2}$ to 8 in., R. and L.	335.00
†100	$2\frac{1}{2}$ to 8 in., R. H.	500.00
†102	$2\frac{1}{2}$ to 10 in., R. H.	700.00
*104	$2\frac{1}{2}$ to 10 in., R. H.	700.00
*106	$2\frac{1}{2}$ to 10 in., R. and L.	750.00

\*Pressure Feed Machine.

†Lead Screw Machine.

These prices include counter-shaft, ratchet wrench and pipe rest. Nos. 70 to 77 have no cut off attachment.



## IXL NEW IMPROVED PIPE CUTTING AND THREADING MACHINES

### HAND MACHINE NO. 1

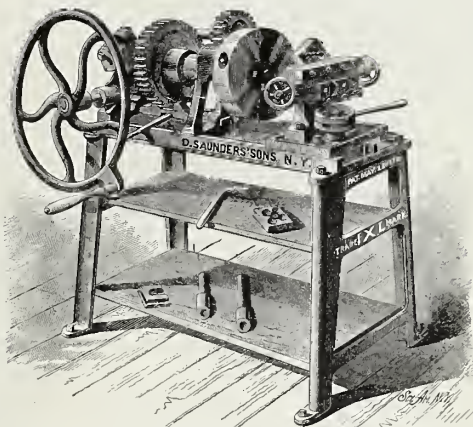


FIG. H-1730

With set of Right Hand Solid Dies, inches, inclusive,  $\frac{1}{4}$  to 2.  
Fly Wheel and set of Sockets for making nipples,  $\frac{1}{4}$  to 2.

Each ----- \$90.00

### POWER MACHINE

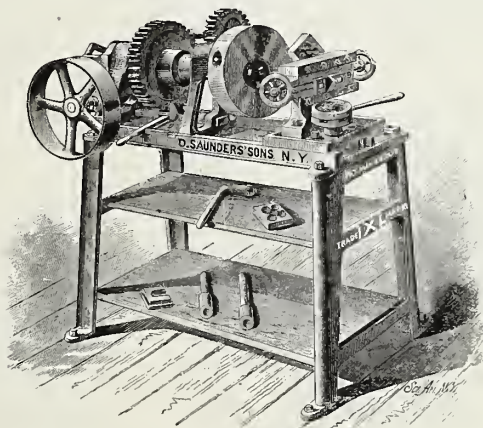


FIG. H-1731

With set of Right Hand Solid Dies, inches, inclusive,  $\frac{1}{4}$  to 2.  
Fly Wheel, Pulleys, Countershaft and set of Sockets for making Nipples,  $\frac{1}{4}$  to 2.

Each ----- \$110.00



OSTER PIPE MACHINES

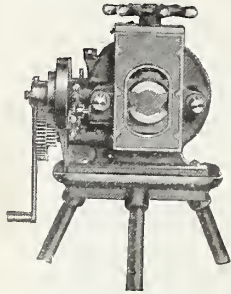


FIG. H-1732

NO. 204 AND 206 HAND MACHINES

BACK VIEW  
FIG. H-1732

	No. 204		No. 206	
	With Tripod	Without Tripod	With Tripod	Without Tripod
Each .....	\$150.00	140.00	250.00	225.00
Shipping Weight.....	575 lbs.	500 lbs.	975 lbs.	875 lbs.
Cuts and Threads....	1 in. to 4 in.		1 in. to 6 in.	
Sets of Dies.....	4		6	
Extra Dies, per set..	\$4.00		5.00	
Extra Cut-off Blade..	1.50		1.50	

FIG. H-1733

Complete with Countershaft, Base, Oil Pump, Pipe Rest and Automatic Cut-off Attachment.  
Cuts and Threads (6 sets of Dies):  
1 & 1¼, 1½ & 2, 2½ & 3, 3½ & 4, 4½ & 5, 6 inch Pipe.

Each .....	\$400.00
Extra Dies, per set (4 pcs.) Right or Left .....	5.00
Extra Cut-off Blade.....	1.50
Shipping Weight, pounds .....	1700

NO. 206 A—  
POWER MACHINE

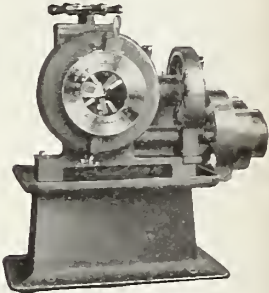


FIG. H-1733

BORDEN'S "BABY" PIPE MACHINES

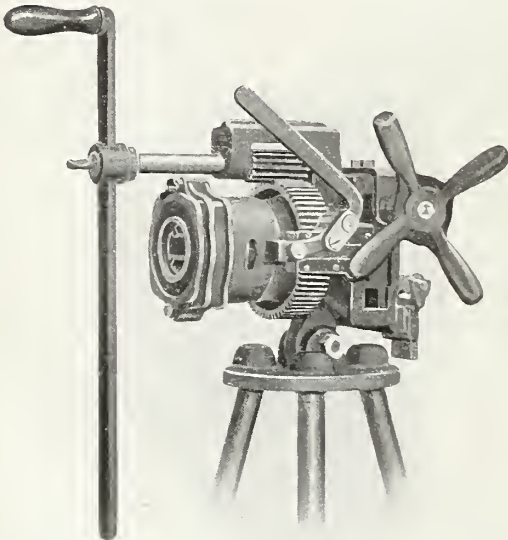


FIG. H-1734

With Borden's Solid-Adjustable Dies, Tripod, Crank and Wrench complete.

No. A—½ to 2 inch Pipe..	\$75.00
Shipping Weight, pounds ..	150

DIE



FIG. H-1735

## ARMSTRONG'S PIPE THREADING MACHINE

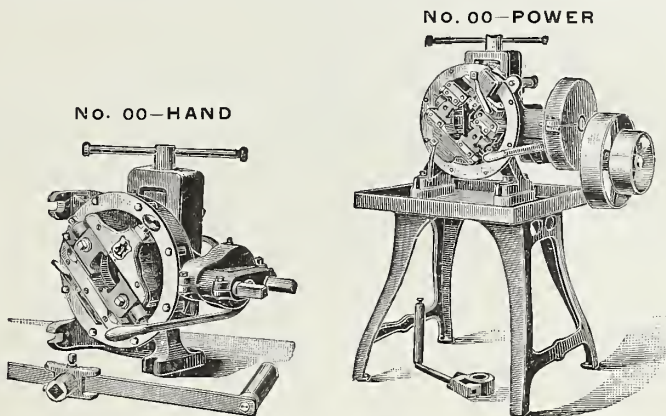


FIG. H-1736

## HAND MACHINE, 1 TO 4 INCH

	Without Stand.	With Stand
No. 00 Hand Machine, without Dies	\$105.00	\$125.00
No. 00 Hand Machine, with Pipe Dies, 1 to 4 inch, R. H.	128.00	148.00

## POWER MACHINE, 1 TO 4 INCH

	Power Attach. (No Countershaft).	Power Attach. and Countershaft.
No. 00 Machine, without Dies	\$130.00	\$175.00
No. 00 Machine, with Pipe Dies, 1 to 4 inch, R. H.	153.00	198.00
No. 00 Machine, Pipe Dies, 1 to 4 inch, R. H., with Stand	173.00	218.00

## DIES

Extra Dies are the same as used in ordinary No. 3 and 6 Stocks. Left Hand same price as R. H. Conduit Dies furnished for No. 0 and No. 00 Machines same list as regular No. 2, No. 3 and No. 6 Dies.

## ATTACHMENTS

No. 00 Machine Power Attachment, no Countershaft	\$25.00
No. 00 Machine Countershaft	45.00
No. 00 Machine Stand	20.00

Unless specified, Machine is shipped without Stand, and for hand use.

## SPEED AND WEIGHTS

Speed of Countershaft, revolutions	300
Weight of Machine with Dies, pounds	370
Weight of Machine Stand, pounds	198

## ARMSTRONG'S PIPE THREADING MACHINE

No. 0

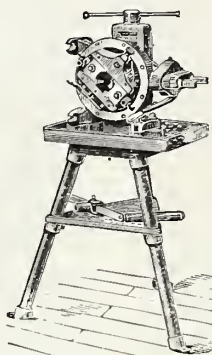


FIG. H-1737

HAND MACHINE,  $\frac{1}{4}$  TO 2 INCH

	Without Stand.	With Stand.
No. 0 Hand Machine, without Dies .....	\$50.00	\$60.00
No. 0 Hand Machine, with Pipe Dies, $\frac{1}{4}$ to 2 in., R. H .....	60.00	70.00
No. 0 Hand Machine, with Bolt Dies, $\frac{1}{2}$ to $1\frac{1}{2}$ in., R. H .....	63.00	73.00

POWER MACHINE  $\frac{1}{4}$  TO 2 INCHES

	Power Attach. No Countershaft.	Power Attach. and Countershaft.
No. 0 Machine, without Dies .....	\$65.00	\$ 93.00
No. 0 Machine, with Pipe Dies, $\frac{1}{4}$ to 2 in., R. H .....	75.00	103.00
No. 0 Machine, with Bolt Dies, $\frac{1}{2}$ to $1\frac{1}{2}$ in. ....	78.00	106.00
No. 0 Machine, Pipe Dies, $\frac{1}{4}$ to 2 in., R. H., with Stand .....	85.00	113.00

## DIES

Extra Dies are same as used in ordinary No. 2 and No. 3 Stocks. For Combination Pipe and Bolt Machine, take net price of Pipe Threading Machine Dies. For Left Hand Dies, add net price from same list.

## ATTACHMENTS

No. 0 Machine Power Attachments, no Countershaft .....	\$15.00
No. 0 Machine Countershaft .....	28.00
No. 0 Machine Stand .....	10.00

Unless specified, Machine is shipped without Stand. and for hand use.

## SPEED AND WEIGHTS

Speed of Countershaft, revolutions .....	260
Weight of Machine with Dies, pounds .....	135
Weight of Machine Stand, pounds .....	60

## STOCKS AND DIES

## MALLEABLE FRAMES—SOLID DIES

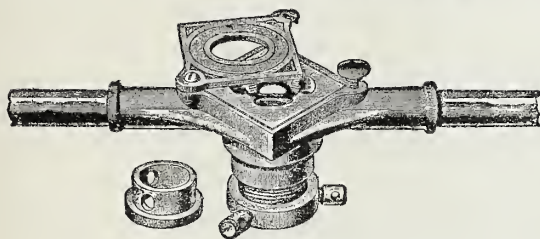


FIG. H-1738



FIG. H-1739

Numbers.	Threads.	Dim. of Dies.	Die Plate Complete.	Without Dies.	Extra Dies.	Extra Bushings.	Ex. Die Frames.
00 for Brass Pipe.	$\frac{3}{8}$ , $\frac{7}{8}$ , 1, 1 $\frac{1}{4}$	2 x 2 x $\frac{1}{2}$	\$13.50	3.50	2.00	.25	—
0	$\frac{1}{8}$ to $\frac{1}{4}$	2 x 2 x $\frac{1}{2}$	9.50	3.50	1.50	.25	—
1	$\frac{1}{4}$ to 1	2 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x $\frac{3}{4}$	15.00	5.00	2.00	.35	.30
1 $\frac{1}{2}$	$\frac{3}{4}$ to 1 $\frac{1}{4}$	3 x 3 x $\frac{3}{4}$	13.50	6.00	2.50	.45	.40
1 $\frac{3}{4}$	1 to 1 $\frac{1}{2}$	3 x 3 x $\frac{3}{4}$	13.50	6.00	2.50	.45	.40
2	1 $\frac{1}{4}$ , 1 $\frac{1}{2}$ and 2	4 x 4 x $\frac{7}{8}$	20.00	9.50	3.50	.60	.50
3, 2-Arm	2 $\frac{1}{2}$ and 3	5 x 5 x 1 $\frac{1}{4}$	43.00	25.00	9.00	1.00	.60
4, 4-Arm	2 $\frac{1}{2}$ and 3	5 x 5 x 1 $\frac{1}{4}$	51.00	33.00	9.00	1.00	.60

Number 2 and larger have Leader Screw.

## MILLER'S REVERSIBLE RATCHET

## WITH SOLID DIES



FIG. H-1740

Number.	Threads Pipe, inches.	Dimensions of Dies.	Stock and Dies Complete.	Stock only, without Dies.	Extra Dies.	Extra Bushings.	Die Frames.
A	$\frac{1}{8}$ to $\frac{3}{4}$	2 x $\frac{1}{2}$	\$13.00	7.50	1.10	.20	—
B	$\frac{1}{4}$ to 1	2 $\frac{1}{2}$ x $\frac{3}{4}$	15.00	7.50	1.50	.25	.22
C	1 to 1 $\frac{1}{2}$	3 x $\frac{3}{4}$	18.50	13.00	1.80	.35	.30
D	1 $\frac{1}{4}$ to 2	4 x $\frac{7}{8}$	20.00	12.50	2.50	.45	.38
E	2 $\frac{1}{2}$ and 3	5 x 1 $\frac{1}{4}$	43.00	29.00	7.00	.75	.45

## CLIMAX RATCHET

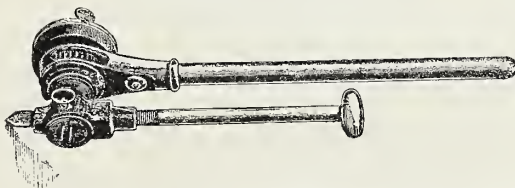


FIG. H-1741

Number	1	2
Threads Pipe, inches	$\frac{1}{4}$ to 1	1 to 2
Stock only without Dies, each	\$10.00	17.00
Solid Dies, each	2.00	3.50

Any standard make of Solid Die will fit.

Threads can be cut on pipe at any angle or in any position.

With this tool it is not necessary to dig up or take out whole lengths of pipe; the defective part of pipe can be cut out and the threads cut on the pieces in the ground with the greatest ease and convenience, not only saving time, but avoiding much unnecessary and disagreeable work.



## STOCKS AND DIES

## ARMSTRONG

NO. 2



FIG. H-1742

## NO. 4 NON-ADJUSTABLE

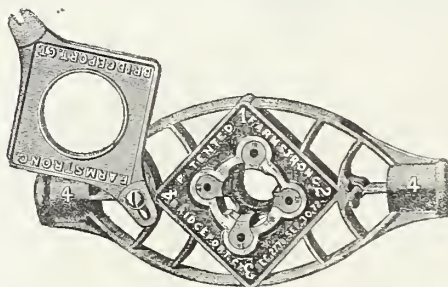


FIG. H-1743

## ARMSTRONG'S ADJUSTABLE STOCKS AND DIES

Number	1	2	2½	3	4	6	7
Threads	⅛ to ½	¼ to 1	½ to 1¼	1¼ to 2	1¼ to 2	2½ & 3	2½ to 4
Complete with R. H. Dies	\$9.00	12.00	12.00	20.00	18.00	40.00	60.00
Stock only	3.25	4.00	4.50	7.00	7.00	25.00	30.00
Extra Dies, Right or Left	1.25	1.50	3.25	4.00	3.00	15.00	16.00
Extra Bushings	.20	.25	.40	.50	.50	1.00	1.50
Extra Wrenches	.25	.25	.25	.50	---	.50	.75

Price for Extra Dies means per Single Set of two pieces.

NOTE.—No. 4 Stock is a sectional and Non-Adjustable Stock. Nos. 2½, 6 and 7 Stocks are fitted with Double-Ended Dies. Nos. 1 and 2 Stocks are packed in cases. as shown in Fig. H-1742. Nos. 6 and 7 have four Arms.

Armstrong Sectional Dies, Right or Left, all sizes, each \$3.00.



## STOCKS AND DIES

## DUPLEX ADJUSTABLE

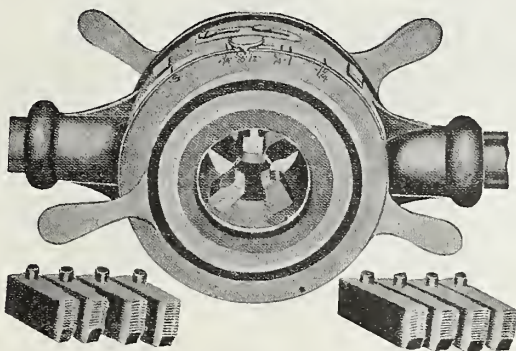


FIG. H-1744

Number	1	2	3	3½	4	5
Threads and Cuts Pipe, inches	1/8 to 3/4	1/4 to 1 1/4	1 to 2	1/2 to 2	1 1/2 to 3	2 1/2 to 4
Complete with Cut-off	\$16.00	20.00	25.00	28.00	45.00	60.00
Without Cut-off	13.00	17.00	22.00	25.00	40.00	55.00
Extra Dies, per set	1.50	1.75	2.00	2.00	3.50	4.00
Extra Cut-off Blades	.40	.40	.40	.40	.50	.50

## TOLEDO GEARED ADJUSTABLE

## No. 2

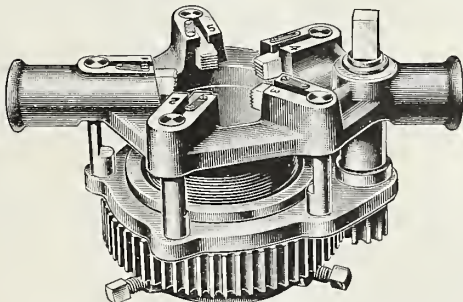


FIG. H-1745

Number	1	1A	2	3
Threads and Cuts Pipe, inches	1 to 2	1 to 2	2 1/2 to 4	4 1/2 to 8
Each	\$24.00	30.00	100.00	300.00

## EXTRA DIES

Size, inches						1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
Per Set of Four Pieces						\$2.50	2.50	2.50	2.50
Size, inches	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	4 $\frac{1}{2}$	5	6	7	8
Per Set of Five Pieces	\$8.00	8.00	8.00	8.00	12.00	12.00	12.00	12.00	12.00

TAPS AND REAMERS

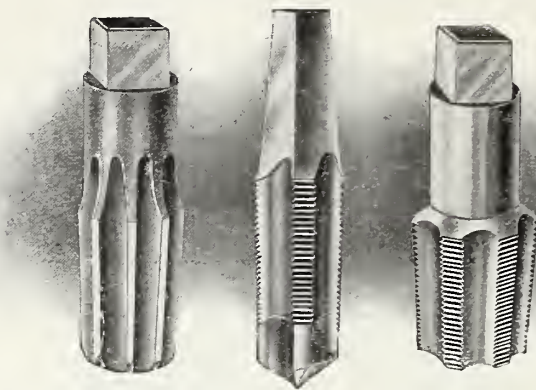


FIG. H-1746      FIG. H-1747      FIG. H-1748

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
Fig. H-1746—Reamer, each	\$1.12	1.25	1.50	1.87	2.50	3.12	3.75
Fig. H-1747—Combined Tap and Drill, each		2.50	2.50	3.00	4.50	6.00	7.25
Fig. H-1748—Tap, each		1.12	1.25	1.50	1.87	2.50	3.75

Size, inches	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Fig. H-1746—Reamer, each	\$4.62	6.25	10.50	15.00	22.00	33.00
Fig. H-1747—Combined Tap and Drill, each	8.50	10.75	15.00			
Fig. H-1748—Tap, each	4.62	6.25	10.50	15.00	22.00	33.00

FLAT DRILL



FIG. H-1749

Size, inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Each	.75	.75	1.00	1.25	1.50	1.75	2.00	2.50	3.00	3.75	4.75

PIPE END REAMER

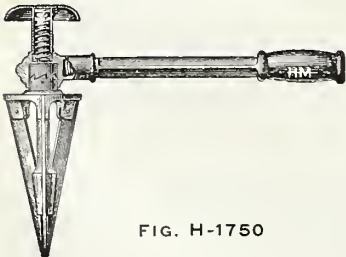


FIG. H-1750

FIG. H-1750

For reaming out the burrs from the ends of  
Wrought Iron and Steel Pipe.

No. 1 is without Ratchet, each	\$5.00
No. 2 is with Ratchet, each	7.00

## ROLLER TUBE EXPANDER

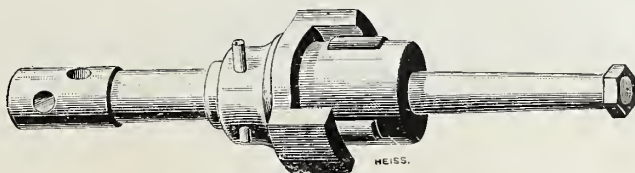


FIG. H-1751

Size of Tube, Outside, inches	1	1 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	1 $\frac{7}{8}$	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$	2 $\frac{3}{4}$
Each	\$10.00	10.00	10.00	10.00	10.00	10.00	12.00	14.00	16.00

Size of Tube, Outside, inches	3	3 $\frac{1}{4}$	3 $\frac{1}{2}$	4	4 $\frac{1}{4}$	4 $\frac{1}{2}$	5	6
Each	\$18.00	20.00	23.00	30.00	35.00	40.00	50.00	60.00

## "FAVORITE" FLUE SCRAPER



FIG. H-1752

2 to 6 inch, per inch	\$1.00
-----------------------	--------

## "INGALL'S" FLUE SCRAPER



FIG. H-1753

2 to 6 inch, per inch	\$1.00
With Wire Brush	1.25

“FAVORITE” STEAM FLUE CLEANER

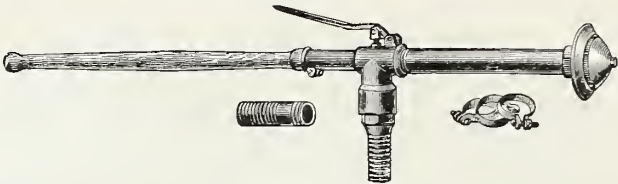


FIG. H-1754

Number of Blower	0	1	2	3
Size of Tubes, outside diameter, inches	1¼-1¾	2-2¼	2½-2¾	3-3¼
Price, with Clamps and Nipple	\$5.00	5.00	6.25	7.50
Number of Blower		4	5	6
Size of Tubes, outside diameter, inches		3½-3¾	4-4½	5 to 6
Price, with Clamps and Nipple		\$8.75	10.00	12.50

The above prices for Blowers do not include Hose and Globe Valves, which we can furnish of very best quality and at lowest market price.

SPIRAL WIRE FLUE BRUSH



FIG. H-1755

Size, inches	1	1¼	1½	1¾	2
Each	\$1.10	1.10	1.20	1.20	1.25
Size, inches	2¼	2½	2¾	3	3¼
Each	\$1.40	1.50	1.60	1.75	2.00
Size, inches	3½	4	4½	5	6
Each	\$2.25	2.50	2.75	3.00	3.50

WHALEBONE FLUE BRUSH



FIG. H-1756

Size, inches	1	1¼	1½	1¾	2
Each	.75	.75	.75	.80	.90
Size, inches	2¼	2½	2¾	3	3¼
Each	\$1.00	1.00	1.25	1.40	1.50
Size, inches	3½	4	4½	5	6
Each	\$1.75	2.00	2.25	2.25	3.00

## WRENCHES

## WARNOCK WRENCH

FOR BRASS PIPE



FIG. H-1757

12 inch complete, holds Pipe $\frac{1}{8}$ to 2 inches, each	\$1.50
18 inch complete, holds Pipe 1 to 5 inches, each	2.50
12 inch Strap, ready for use, each	.50
18 inch Strap, ready for use, each	.75

## STILLSON PIPE WRENCH

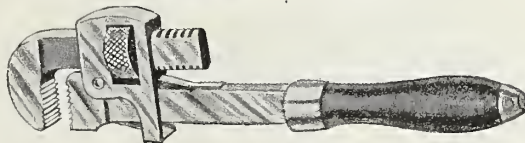


FIG. H-1758

Length, inches	6	8	10	14	18	24	36	48
Takes Pipe, inches	$\frac{1}{8}$ to $\frac{1}{2}$	$\frac{1}{8}$ to $\frac{3}{4}$	$\frac{1}{8}$ to 1	$\frac{1}{4}$ to $1\frac{1}{2}$	$\frac{1}{4}$ to 2	$\frac{1}{4}$ to $2\frac{1}{2}$	$\frac{1}{2}$ to $3\frac{1}{2}$	1 to 5
Each	\$2.00	2.00	2.25	3.00	4.00	6.00	12.00	18.00
Jaw	.75	.75	.80	1.00	1.33	2.10	4.75	7.25
Frame	.35	.35	.40	.50	.55	.80	1.30	1.50
Steel Handle	.95	.95	1.10	1.45	2.10	3.20	6.40	9.25
Nut	.11	.11	.14	.17	.22	.35	.55	.95
Wood Handle	.16	.16	.18	.25	.28			
Springs	.10	.10	.10	.10	.10	.11	.13	.13

## TRIMO PIPE WRENCH



FIG. H-1759

Length, inches	6	8	10	14	18	24	36	48
Takes Pipe, inches	$\frac{1}{8}$ to $\frac{1}{2}$	$\frac{1}{8}$ to $\frac{3}{4}$	$\frac{1}{8}$ to 1	$\frac{1}{4}$ to $1\frac{1}{2}$	$\frac{1}{4}$ to 2	$\frac{1}{4}$ to $2\frac{1}{2}$	$\frac{1}{2}$ to $3\frac{1}{2}$	1 to 5
Each	\$2.00	2.00	2.25	3.00	4.00	6.00	12.00	18.00
Jaw	.67	.67	.75	1.00	1.33	2.00	4.00	6.00
Nut	.20	.20	.27	.35	.42	.50	.65	.80
Inserted Jaw	.25	.25	.33	.50	.55	.65	1.00	1.25
Frame	.25	.25	.33	.45	.55	.65	.75	1.00
Spring	.03	.03	.03	.03	.04	.04	.04	.04
Frame Pin	.03	.03	.03	.03	.04	.04	.04	.04
Jaw Pin	.03	.03	.03	.03	.04	.04	.04	.04



## WRENCHES

## COE'S MONKEY WRENCH



FIG. H-1760

Length, inches	6	8	10	12	15	18	21
Black, per doz	\$9.00	10.00	12.00	14.00	24.00	30.00	36.00
Polished, per doz	10.00	12.00	14.00	16.00	26.00	32.00	38.00

## COE'S ALL STEEL WRENCHES—(Not Illustrated.)

Length, inches	28	36
Each	\$9.75	19.00

## B. &amp; C. COMBINATION WRENCH



FIG. H-1761

10 inch, adjustable to pipe from $\frac{1}{4}$ inch to 1 inch in diameter, per doz	\$25.25
12 inch, adjustable to pipe from $\frac{1}{4}$ inch to $1\frac{1}{2}$ inch in diameter, per doz	28.50
15 inch, adjustable to pipe from $\frac{1}{4}$ inch to 2 inch in diameter, per doz	40.50

## ADJUSTABLE "S" WRENCHES

## PIPE WRENCH



FIG. H-1762

Size, inches	6	8	10	12	14
For Pipe, $\frac{1}{8}$ inch to	$\frac{3}{8}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Each	\$1.00	1.25	1.50	2.00	2.50

## NUT WRENCH



FIG. H-1763

Size, inches	6	8	10	12	14
Opens to	$\frac{3}{4}$	1	$1\frac{3}{8}$	$1\frac{5}{8}$	2
Each	.60	.75	1.00	1.25	1.75

## "BULL DOG" WRENCHES

No. 1



FIG. H-1764

No. 2



FIG. H-1765

TWIN



FIG. H-1766

FIGS. H-1764, H-1765 AND H-1766

Number	0	1	2	Twin.	3	4
Length, inches	4	5 $\frac{3}{4}$	9	10	16	22
Holds Pipe	$\frac{1}{8}$ to $\frac{1}{4}$	$\frac{1}{8}$ to $\frac{3}{8}$	$\frac{3}{8}$ to $\frac{3}{4}$	$\frac{1}{8}$ to $\frac{3}{4}$	$\frac{1}{2}$ to $1\frac{1}{4}$	$1\frac{1}{4}$ to 2
Holds Round Iron	$\frac{1}{4}$ to $\frac{9}{16}$	$\frac{1}{4}$ to $\frac{3}{4}$	$\frac{1}{2}$ to 1	$\frac{1}{4}$ to 1	$\frac{3}{4}$ to $1\frac{3}{8}$	$1\frac{1}{2}$ to $2\frac{1}{2}$
Price, per dozen	\$3.00	4.00	12.00	18.00	24.00	36.00

### "ALWAYS READY" WRENCH



FIG. H-1767

### "ELGIN" ADJUSTABLE WRENCH

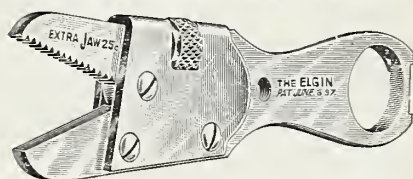


FIG. H-1768

FIG. H-1767—"ALWAYS READY" WRENCHES

No. 1	— 5 inch, holds $\frac{1}{4}$ to $\frac{3}{4}$ inch	Square or Round Iron, per dozen	— \$5.00
No. 2	— 7 inch, holds $\frac{1}{4}$ to $1\frac{1}{4}$ inch	Square or Round Iron, per dozen	— 6.75
No. 2 $\frac{1}{2}$	— 9 $\frac{1}{2}$ inch, holds $\frac{1}{4}$ to $1\frac{3}{4}$ inch	Square or Round Iron, per dozen	— 10.50
No. 3	— 11 $\frac{1}{2}$ inch, holds $\frac{3}{4}$ to 2 inch	Square or Round Iron, per dozen	— 16.00

### FIG. H-1768—"ELGIN" ADJUSTABLE WRENCHES

Both Jaws hardened. Wrench is all steel, nickel-plated. Length, 7 inches, Weight, 10 ounces.

Wrenches, per dozen	— \$12.00
Extra Jaws, per dozen	— 3.00

### BAXTER WRENCH

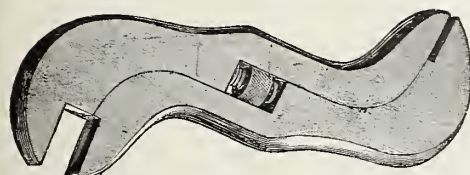


FIG. H-1769

### FIG. H-1769—BAXTER WRENCHES

Size, inches	4	6	8
Per dozen	\$6.00	9.00	12.00
Size, inches	10	12	
Per dozen	\$18.00	24.00	

## TRIMO BASIN WRENCH

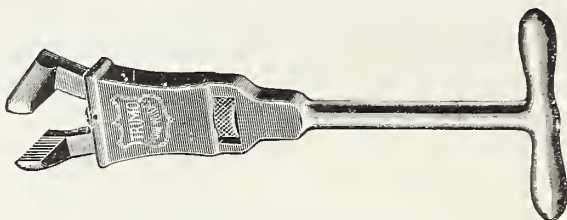


FIG. H-1770

Each	\$2.50
Extra Jaws, per pair	1.00
Extra Nuts, each	.40
Extra Springs, each	.20
Extra Screws, each	.40

## VULCAN CHAIN WRENCH

WITH FLAT LINK CHAIN



FIG. H-1771

Number	10	11	12	13	13½	14	15
With Flat Link Chain, each	\$2.50	3.50	5.00	7.00	9.00	11.00	18.00
With Cable Chain, each	2.25	3.25	4.50	6.25	7.75	9.50	16.00
Capacity, size pipe, inches	½ to ¾	¾ to 1½	¾ to 2½	¾ to 4	1 to 6	1½ to 8	2 to 12
Length over all, inches	13¾	20	27	37	44½	50 ½	64½
Weight, pounds	1¾	4¾	8¾	16	21	27	49
Extra Flat Link Chains, each	.75	1.00	1.50	2.50	3.25	4.00	6.00
Extra Jaws, per pair	1.00	1.75	2.75	4.00	4.75	5.50	7.50

## IDEAL CHAIN WRENCH



FIG. H-1772

Number of Wrench	2	3	4	5
Each	\$6.00	8.00	11.00	16.00
Capacity, size pipe, inches	½ to 3½	1 to 5	2 to 8	2½ to 12
Capacity, size fittings, inches	½ to 3	1 to 4	2 to 6	2½ to 10
Length of Wrench, inches	27	38	49	61
Weight of Wrench, pounds	10	18	28	50
Extra Jaws, per pair	3.25	4.50	5.85	7.50
Extra Handles, each	2.10	3.25	4.75	6.90
Extra Chain, each	.95	1.21	1.70	3.00
Extra Steel Pins, each	.15	.20	.25	.30
Extra Bolts, each	.20	.25	.30	.35
Size of Cable Chain	¾	1½	2	3

## GAS PLIERS

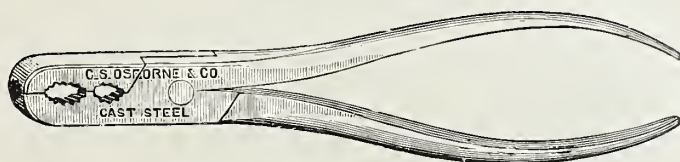


FIG. H-1773

Length, inches	5	6	7	8	9	10	11	12	13	14
All Polished, per doz	\$8.00	9.00	10.00	15.00	17.00	18.00	19.00	21.00	24.00	27.00
Black Handles, per doz				12.00	14.00	15.00	16.00	18.00	21.00	24.00

## SIDE CUTTING PLIERS

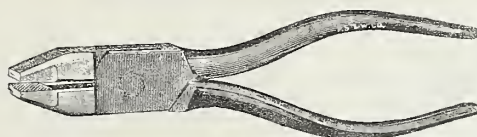


FIG. H-1774

Length, inches	4	5	5½	6	7	8
Per dozen	\$8.95	9.90	11.25	12.15	15.60	18.85

## COMBINED PLIERS AND CUTTING NIPPERS



FIG. H-1775

Length, inches	4½	6	8	10
Cuts Wire Number	14	11	8	6
Per dozen	\$10.00	12.00	15.00	20.00

## GAS PLIERS, WIRE CUTTERS, WRENCH AND SCREW DRIVER COMBINED



FIG. H-1776

Length, inches	6	8	10
Black, per doz	\$13.50	18.00	24.00
Nickel-plated, per doz	15.00	21.00	30.00
Plier Bolts, each	.07½	.10	.10
Plier Nuts, each	.05	.06	.06



# "CAREW" END CUTTING NIPPER

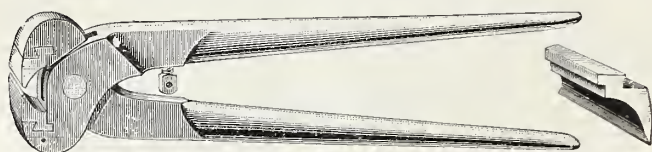


FIG. H-1777

Length, inches .....	6	8	10	12	14
Each .....	\$1.75	2.00	2.25	2.60	3.00
Extra Jaws, per pair .....	.50	.55	.60	.65	.70

## VALVE WHEELS

WOOD WHEEL

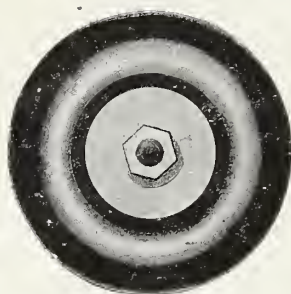


FIG. H-1778

BRASS WHEEL



FIG. H-1779

FIG. H-1778 AND H-1779—WOOD AND BRASS WHEELS FOR VALVES

Size of Valves, inches .....	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Wood Wheels, each .....	.25	.30	.30	.5	.40	.50
Top and Bottom Plates, Brass, each .....	.25	.30	.30	.35	.35	.40
Top and Bottom Plates, Nickel-plated, each .....	.35	.40	.40	.45	.45	.50
Finished Brass Wheels, each .....	1.25	1.30	1.30	1.60	1.65	1.75
Finished Brass Wheels, Nickel-plated, each .....	1.50	1.55	1.55	1.85	1.90	2.00

WIRE WHEEL

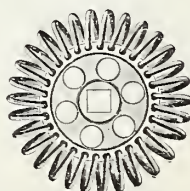


FIG. H-1780

Size Valve, inches .....	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$
Outside diameter of Wheel, inches .....	2	2	$2\frac{3}{8}$	$2\frac{5}{8}$	3	$3\frac{1}{4}$	$3\frac{1}{2}$	4	$4\frac{1}{2}$	$5\frac{1}{4}$	$5\frac{3}{4}$	$6\frac{3}{4}$	$7\frac{1}{2}$
Each .....	.12	.12	.12	.14	.16	.20	.25	.30	.35	.40	.45	.55	.65



## PIPE CUTTERS

## SAUNDERS' ROLLER AND THREE WHEEL PATTERN



FIG. H-1781

Number.....	1	2	3	4	5
Cuts Pipe, inches.....	$\frac{1}{8}$ to 1	1 to 2	2 to 3	$2\frac{1}{2}$ to 4	4 to 6
Each.....	\$3.00	4.50	11.00	18.00	28.00
Extra Block and Wheel, each.....	1.25	1.75	2.75	3.50	4.00
Extra Wheels, each.....	.24	.32	.60	.60	.60
Extra Rollers, each.....	.24	.32	.50	.50	.60
Extra Pins, each.....	.10	.10	.15	.15	.15

## BARNES'

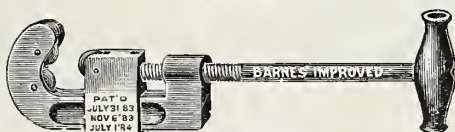


FIG. H-1782

Number.....	1	2	3	4	5	6	7
Cut Pipe, inches.....	$\frac{1}{8}$ to 1	$\frac{1}{2}$ to 2	$1\frac{1}{2}$ to 3	$2\frac{1}{2}$ to 4	4 to 6	6 to 8	9 to 12
Each.....	\$4.50	6.00	10.00	20.00	30.00	40.00	50.00
Extra Wheels, each.....	.25	.30	.40	.50	.75	.75	.75
Extra Pins, each.....	.10	.10	.10	.20	.20	.25	.25

## TRIMO



FIG. H-1783

Number.....	1	2	3
Cuts Pipe, inches.....	$\frac{1}{8}$ to $1\frac{1}{4}$	$\frac{1}{2}$ to 2	$1\frac{1}{4}$ to 3
Each.....	\$4.50	6.00	10.00
Extra Wheels, each.....	.30	.30	.40
Extra Rolls, each.....	.30	.30	.40
Extra Nuts, each.....	.35	.35	.40

## ARMSTRONG



FIG. H-1784

Number.....	1	2	3
Cuts Pipe, inches.....	$\frac{1}{8}$ to $1\frac{1}{4}$	$\frac{1}{2}$ to $2\frac{1}{2}$	$1\frac{1}{2}$ to 4
Each.....	\$4.50	6.00	15.00
Extra Wheels, each.....	.25	.30	.50
Extra Rollers, each.....	.25	.30	.50

## PIPE CUTTERS

## HOLLAND

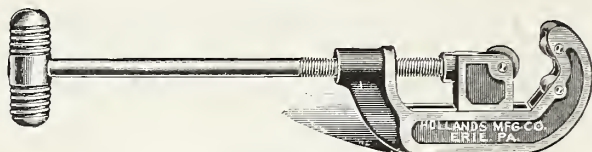


FIG. H-1785

Number	1	2	3	4
Cuts Pipe, inches	$\frac{1}{8}$ to $1\frac{1}{4}$	$\frac{3}{8}$ to 2	1 to $3\frac{1}{2}$	1 to 4
Each, 3 Wheel	\$4.50	6.50	15.00	18.00
Each, Roller Pattern	4.50	6.75	16.00	20.00

## MILLER'S REVERSIBLE RATCHET CUTTERS



FIG. H-1786

Number	0	1	$1\frac{1}{2}$	2	3
Cuts Pipe, inches	$\frac{1}{8}$ to $\frac{3}{4}$	$\frac{1}{2}$ to 1	1 to $1\frac{1}{2}$	$1\frac{1}{2}$ to 2	$2\frac{1}{2}$ to 3
Each	\$6.75	8.50	10.00	11.00	16.00
Extra Wheels, each	.12	.18	.18	.25	.40

## CAST IRON PIPE CUTTERS



FIG. H-1787

Number	3	$3\frac{1}{2}$	4	5
Cuts Pipe, inches	4 and under	4 to 6	4 to 8	8 to 12
Each	\$7.00	12.00	18.00	25.00

## LEAD PIPE CUTTER

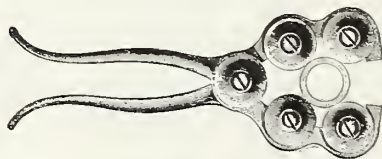


FIG. H-1788

Nickeled, each	\$1.25
Japanned, each	1.00
Extra Wheels, each	.05

# PIPE VISES

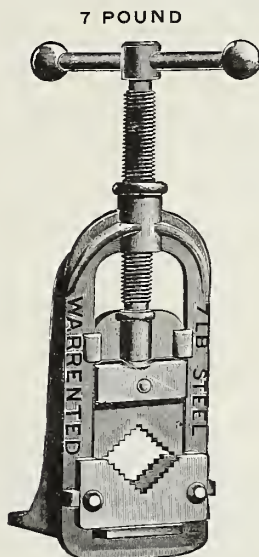


FIG. H-1789

Takes Pipe  $\frac{1}{8}$  to 2 inch, each ---- \$7.00

## HINGED

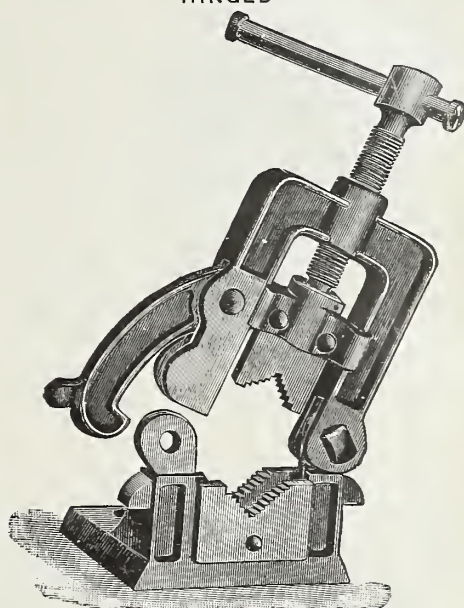


FIG. H-1790

No. 10, takes pipe  $\frac{1}{8}$  to  $2\frac{1}{2}$  in., each \$10.00  
 No. 20, takes pipe  $\frac{1}{2}$  to  $4\frac{1}{2}$  in., each 20.00  
 No. 25, takes pipe  $\frac{1}{2}$  to 5 in., each 30.00  
 No. 30, takes pipe 1 to 6 in., each 36.00

## SMITH'S

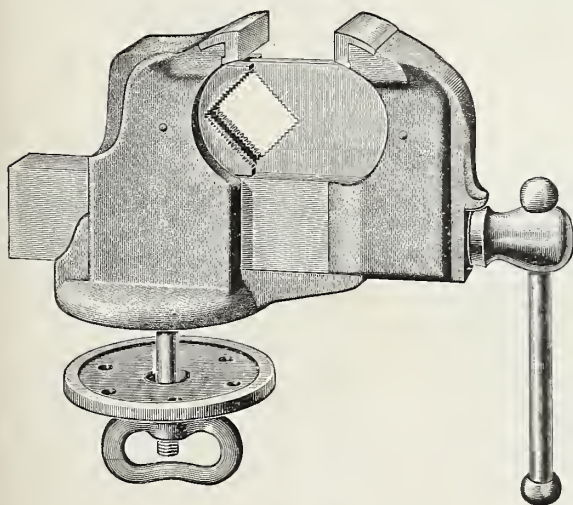


FIG. H-1791

FIG. H-1791—SMITH'S  
COMBINATION

Number	1	2
Weight, pounds	47	70
Takes pipe	$\frac{1}{8}$ -2	$\frac{1}{4}$ -3
Complete, each	\$16.00	20.00
Number	3	
Weight, pounds	100	
Takes pipe	$\frac{1}{4}$ -4	
Complete, each	\$28.00	

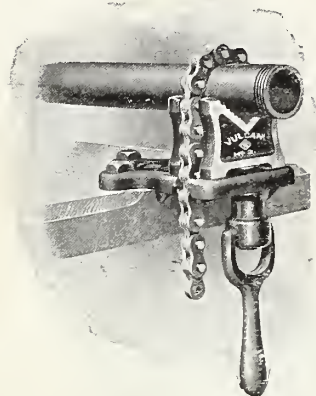
**"VULCAN"**

FIG. H-1792

**VULCAN PATENT DROP-FORGED CHAIN  
PIPE VISE**

For Holding Pipe, Bolts, Bars, Shafts, etc., from  
 $\frac{1}{8}$  to  $2\frac{1}{2}$  inch diameter.

No. 2, for Pipe, sizes $\frac{1}{8}$ to $2\frac{1}{2}$ inch, each.....	\$5.00
Base, each.....	1.00
Jaws, per pair.....	2.25
Chain, each.....	1.25
Handle, each.....	.50
Screw, each.....	.20
Nut, each.....	.60
Washer, each.....	.20

Weight, 10 lbs. Size, folded, 6 x 8 x 8.

FIG. H-1793

**VANDERMAN COMBINATION  
BENCH PIPE VISE**

Three Combinations in one. Con-  
structed with Steel Sliding Bar.  
Bends Pipe up to  $1\frac{1}{2}$  inches.

No. 0 Holds Pipe $\frac{1}{8}$ to 2 in., each.....	\$15.00
No. 1 Holds Pipe $\frac{1}{8}$ to 7 in., each.....	20.00
No. 3 Holds Pipe $\frac{1}{8}$ to 10 in., each.....	30.00

Extra Jaws for Brass Pipe $\frac{1}{2}$ to 2 in. Nor No. 0 or No. 1.....	\$2.00
For No. 3.....	2.50

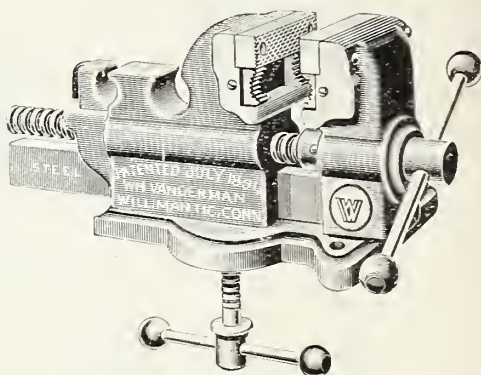
**"VANDERMAN"**

FIG. H-1793

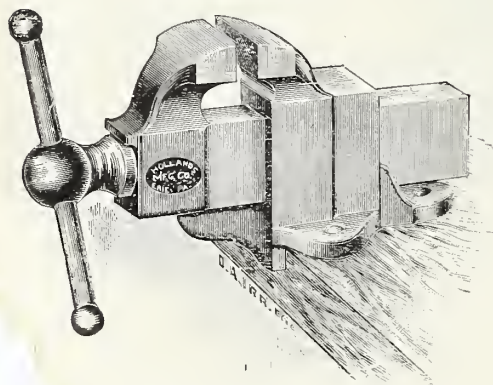
**MACHINISTS'**

FIG. H-1794

FIG. H-1794

**MACHINISTS' VISES  
STATIONARY BASE**

Number.....	3	3½	5	15	25
Width of Jaw, in.....	2	2½	3¼	3½	4
Vise opens, in.....	3	3½	4	5	6
Price, each.....	\$3.80	4.75	6.00	7.00	9.00
Number.....	35	45	55	59	
Width of Jaw, in.....	4½	5	6	7	
Vise opens, in.....	7	8	9	11	
Price, each.....	\$10.00	13.00	25.00	28.50	

**SWIVEL BASE—(Not Illustrated.)**

Number.....	8	8½	10	20	30
Width of Jaw, in.....	2	2½	3¼	3½	4
Vise opens, in.....	3	3½	4	5	6
Price, each.....	\$4.30	5.20	7.50	8.75	11.00
Number.....	40	50	60	70	
Width of Jaw, in.....	4½	5	6	7	
Vise opens, in.....	7	8	9	11	
Price, each.....	\$12.50	16.00	30.00	33.00	



PLUMBERS'  
FORCE PUMP

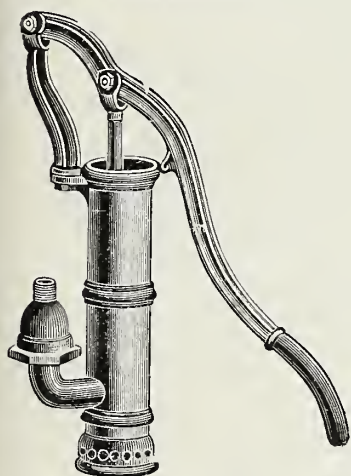


FIG. H-1795

Each ----- \$7.00

"PLUMBERS'  
FRIEND"  
FORCE CUP

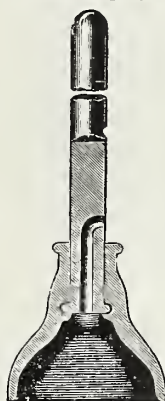


FIG. H-1796  
Length, 42 inches.

Each ----- \$2.00

FORCE CUP



FIG. H-1797

Number --	1	2	3
Each, net	.40	.60	.80

GAS PROVING PUMPS

WITH MERCURY GAUGE

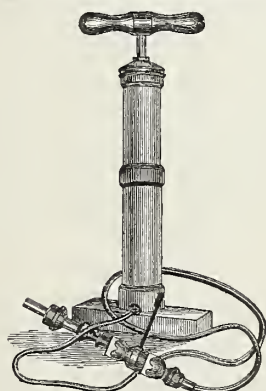


FIG. H-1798

Complete	\$16.00
Pump and Hose only	8.00
Gauge with Ether Cup and Cock	8.00

WITH SPRING GAUGE

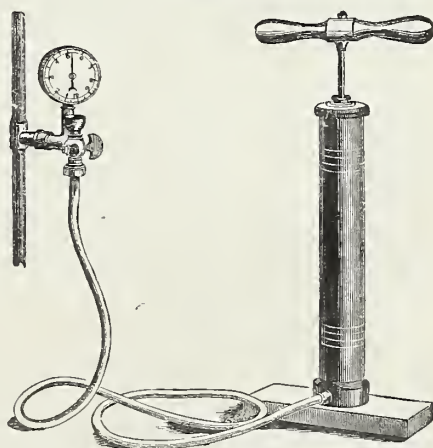


FIG. H-1799

Complete	\$1
Pump and Hose only	
2½ inch Gauge only	
Ether Cup and Cock	



## ASBESTOS LEAD JOINT RUNNERS

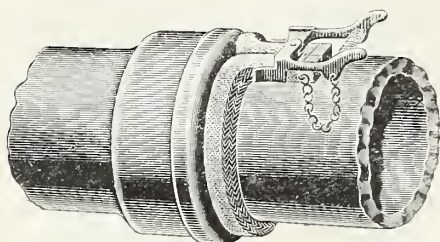


FIG. H-1800

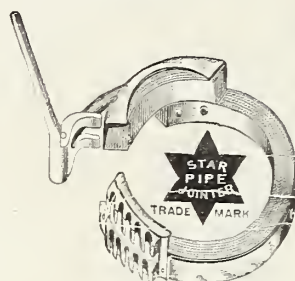


FIG. H-1801

## FIG. H-1800—ASBESTOS LEAD JOINT RUNNERS

No. 1,	$\frac{3}{4}$ inch square for 2, 3 and 4 inch pipe, each	\$1.25
No. 2,	$\frac{3}{4}$ inch square for 4, 5 and 6 inch pipe, each	1.50
No. 3,	1 inch square for 6, 8 and 10 inch pipe, each	2.25
No. 4,	1 inch square for 10, 12 and 14 inch pipe, each	3.00
No. 5,	$1\frac{1}{4}$ inch square for 8, 10 and 12 inch pipe, each	4.00
No. 6,	$1\frac{1}{4}$ inch square for 10, 12 and 14 inch pipe, each	5.00
No. 7,	$1\frac{1}{4}$ inch square for 16, 18 and 20 inch pipe, each	6.75
No. 8,	$1\frac{1}{4}$ inch square for 24 inch pipe, each	7.75
No. 9,	$1\frac{1}{4}$ inch square for 30 inch pipe, each	8.75
No. 10,	$1\frac{1}{4}$ inch square for 36 inch pipe, each	9.75
No. 11,	$1\frac{1}{4}$ inch square for 40 inch pipe, each	10.75
No. 12,	$1\frac{1}{4}$ inch square for 42 inch pipe, each	11.25
No. 13,	$1\frac{1}{4}$ inch square for 48 inch pipe, each	12.50

## FIG. H-1801—STAR PIPE JOINTERS

## FOR RUNNING LEAD JOINTS IN ALL KINDS OF IRON PIPE

2 inch, each	\$3.00	16 inch, each	\$11.00
3 inch, each	3.50	18 inch, each	12.00
4 inch, each	4.00	20 inch, each	13.00
6 inch, each	5.00	24 inch, each	14.00
8 inch, each	6.50	30 inch, each	15.00
10 inch, each	7.75	36 inch, each	16.00
12 inch, each	9.00	40 inch, each	18.00
14 inch, each	10.00	48 inch, each	20.00

## SOIL PIPE JOINTERS

2 inch, each	\$1.50
3 inch, each	2.25
4 inch, each	3.00
5 inch, each	3.75
6 inch, each	4.50
7 inch, each	5.25
8 inch, each	6.00

Sizes not given made to order at proportionate prices.

No Clay whatever being required in its use. Manufactured for a Flush, Square Bead or Beveled Joint. In ordering state whether you want Jointers for a Flush, Square Bead or Beveled Joint, otherwise Jointers for a Flush Joint will be sent.

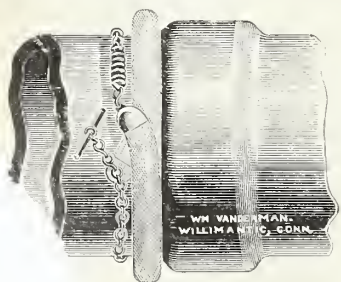


FIG. H-1802

## FIG. H-1802—ROUND ASBESTOS RUNNERS

No. 1 Round	$\frac{3}{4}$ in. for 2, 3 and 4 in. pipe	\$1.25
No. 2 Round	$\frac{3}{4}$ in. for 4, 5 and 6 in. pipe	1.50
No. 3 Round	1 in. for 6, 8 and 10 in. pipe	2.00
No. 4 Round	1 in. for 10, 12 and 14 in. pipe	2.50

## STEEL TOOL CHEST—Style A

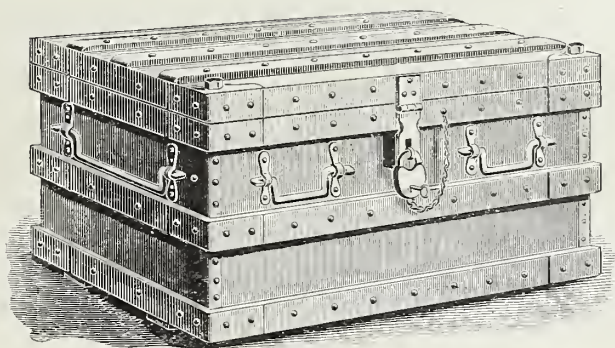


FIG. H-1803

No. 1, Style A, 11 in. deep, 12 in. wide, 24 in. long, with one drawer	\$12.50
No. 2, Style A, 14 in. deep, 15 in. wide, 30 in. long, with one drawer	17.00
No. 3, Style A, 16 in. deep, 17 in. wide, 36 in. long, with one drawer	19.00
No. 4, Style A, 19 in. deep, 20 in. wide, 42 in. long, with one drawer	22.00

No. 1, Style A, 11 in. deep, 12 in. wide, 24 in. long, with two drawers	\$13.60
No. 2, Style A, 14 in. deep, 15 in. wide, 30 in. long, with two drawers	18.00
No. 3, Style A, 16 in. deep, 17 in. wide, 36 in. long, with two drawers	20.25
No. 4, Style A, 19 in. deep, 20 in. wide, 42 in. long, with two drawers	23.50

Will be sent with one drawer unless otherwise ordered.

Style B.—Sent with two Tills unless ordered with one.

No. 1, Style B, 11 in. deep, 12 in. wide, 24 in. long, with one till	\$13.00
No. 2, Style B, 14 in. deep, 15 in. wide, 30 in. long, with one till	18.50
No. 3, Style B, 16 in. deep, 17 in. wide, 36 in. long, with one till	20.50
No. 4, Style B, 19 in. deep, 20 in. wide, 42 in. long, with one till	23.00

No. 1, Style B, 11 in. deep, 12 in. wide, 24 in. long, with two tills	\$13.50
No. 2, Style B, 14 in. deep, 15 in. wide, 30 in. long, with two tills	19.00
No. 3, Style B, 16 in. deep, 17 in. wide, 36 in. long, with two tills	21.00
No. 4, Style B, 19 in. deep, 20 in. wide, 42 in. long, with two tills	24.00

No. 1, Style C, 11 inches deep, 12 inches wide, 30 inches long	\$12.50
No. 2, Style C, 11 inches deep, 12 inches wide, 36 inches long	15.00
No. 3, Style C, 11 inches deep, 12 inches wide, 42 inches long	17.00
No. 4, Style C, 11 inches deep, 12 inches wide, 48 inches long	20.00

## PLUMBERS' TOOLS

## WESTERN UNION LEATHER TOOL BAG

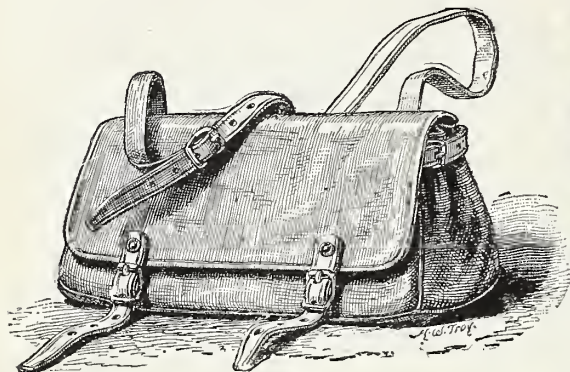


FIG. H-1804

All solid Leather, in black or russet, with or without saw sheath.

Size, inches	Plain	With Saw Sheath
17½ x 7½ x 8	\$3.35	3.90
19½ x 8½ x 9	3.75	4.44
22 x 9 x 9½	4.38	5.19

## TOOL BAG

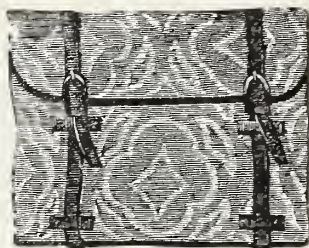


FIG. H-1805

Each	\$3.75
If with Leather Bottom	5.00
If with Leather Bottom and Sides	5.50

## PIPE BENDER



FIG. H-1806

Number	1	2	3	4
For Pipe, inches	1 1¼	1½	2	2
24 inches long, ea	\$1.25	1.50	1.75	2.00
18 inches long, ea	.90	1.15	1.35	1.50

## BIBB SEAT DRESSER

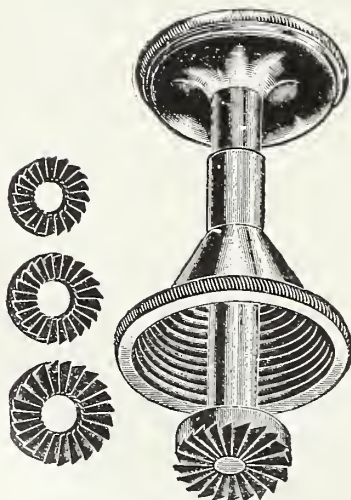


FIG. H-1808

With 4 Cutters, each \$5.00

## PIPE BENDER



FIG. H-1807

Number	0	1	2	3	4
For Pipe, inches	¾	1	1¼	1½	2
Each, net	.90	1.00	1.25	1.50	2.00

## PIPE BENDER

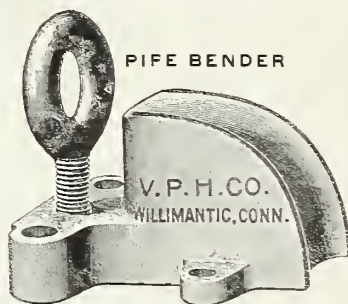


FIG. H-1809

Number	1	2
Takes Pipe, inches	½ to 1¼	1 to 2
Each	\$3.50	4.50



## PLUMBERS' TOOLS



FIG. H-1810



FIG. H-1811

## RASPS

Size, inches	10	12	14
Per doz	\$13.70	18.70	24.80

## FILES

Size, inches	10	12	14
Flat, per doz	\$7.00	9.70	13.30
Half Round, per doz	9.10	11.80	15.50

## TAP BORER

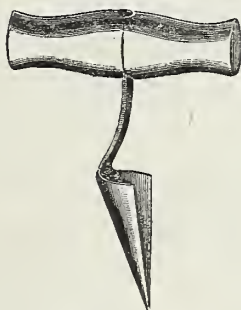


FIG. H-1812

Short Pattern, each	.35
Long Pattern, each	.45

## BOSSING STICK



FIG. H-1815

Each	\$1.00
------	--------

## BOXWOOD DRESSER



FIG. H-1817

Each	\$1.00
------	--------

## CHIPPING KNIFE



FIG. H-1818

Each	.50
------	-----

## SHAVE HOOK



FIG. H-1813

Oval, each	.30
Half Oval, each	.30
Triangular, each	.30

## SIDE EDGE



FIG. H-1814

Each	.75
------	-----

## TURN PIN



FIG. H-1816

Number	1	2	3
Each	.25	.25	.25

## DRIFT PLUG

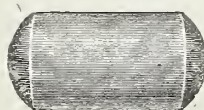


FIG. H-1819

Size, inches	1	1 1/4	1 1/2	2
Each	.20	.20	.20	.20

## PLUMBERS' TOOLS

STRAIGHT CALKING CHISEL



FIG. H-1820

Each ..... .50

STUB CALKING CHISEL



FIG. H-1821

Each ..... .50

RIGHT HAND CALKING AND  
YARNING CHISEL

FIG. H-1822

Each ..... .50

LEFT HAND CALKING AND  
YARNING CHISEL

FIG. H-1823

Each ..... .50

STRAIGHT YARNING CHISEL



FIG. H-1824

Each ..... .50

BENDING PIN



FIG. H-1825

Each ..... .30

ROUND IRON



FIG. H-1826

Number	1	2	3
Each	.70	.90	1.10

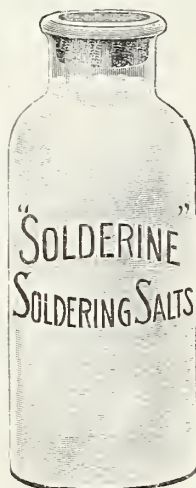


FIG. H-1827

SOLDERING  
COPPER

FIG. H-1828

FIG. H-1827—"SOLDERINE" SOLDERING SALTS

An improved soldering compound. Specially adapted for Tin, Copper, Zinc, Brass, Galvanized Iron and other metals. Excellent for Tin roofs and the Tinning of Soldering Coppers, etc.

"Solderine" Soldering Salts is a new mixture, made from our own formula. Free from odors or discoloration. Useful in every shop. Quality assured.

The salt is ready for all kinds of soldering by the simple addition of more or less water. Directions on every package.

Put up in 1 pound Bottles, each ..... .50

Larger packages to order.

FIG. H-1828—SOLDERING COPPER

Sizes, 1, 1½, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 12 pounds per pair.

Sizes, lbs.	1	1½	2 & 2½	3 & heavier.
Per pound	.50	.45	.35	.35



## PLUMBERS' TOOLS

BLOW PIPE



FIG. H-1829

Each ..... .50

SOIL CUP

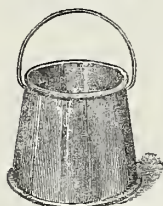


FIG. H-1831

Each ..... .50

SOIL BRUSH



FIG. H-1833

Each, net ..... .10

WIPING CLOTHS

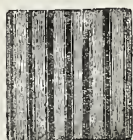


FIG. H-1835

Moleskin, each ..... .25  
 Ticking, each ..... .15

CANDLE STICK

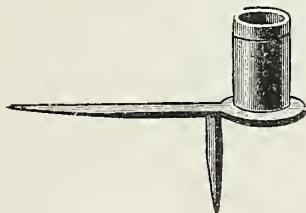


FIG. H-1837

Each ..... .25

LADLES



FIG. H-1830

Size, inches	2½	3	3½	4	5	6
Each	.35	.40	.50	.60	.70	.90
Extra Heavy, each						\$1.75

SOLDER POTS



FIG. H-1832

Number	1	2	3	4
Top Diameter, in	5	6	6½	8
Each	.50	.65	.85	1.10
Number	5	6	7	
Top Diameter, inches	9	10½	13½	
Each	\$1.50	1.75	2.50	

GREASE BOX



FIG. H-1836

Each ..... \$1.50

PLUMBERS' SOIL

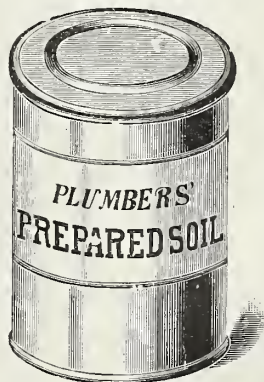


FIG. H-1838

Per pint ..... .50

## PLUMBERS' TOOLS

PIG LEAD MOULD



FIG. H-1839

Each, net ..... \$2.00

STRAP BAR MOULD

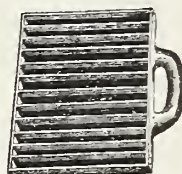


FIG. H-1840

Each, net ..... \$2.50

HALF ROUND BAR MOULD



FIG. H-1841

Each, net ..... \$2.50

INGOT MOULD



FIG. H-1842

Two Bars, each, net ..... \$2.00

Four Bars, each, net ..... 2.50

TACK MOULDS—PLAIN PATTERN

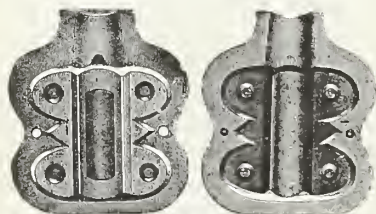


FIG. H-1843

FIG. H-1843

Single, each ..... \$1.50

Double, each ..... 2.00

NO. 20

HACK SAWS



FIG. H-1844

FIG. H-1844

Size, inches	8	9
Frame, each	.50	.52½
Blades, per doz	.65	.70

Size, inches	10	12
Frame, each	.55	.60
Blades, per doz	.85	1.05

NO. 50 ADJUSTABLE



FIG. H-1845

FIG. H-1845

ADJUSTABLE HACK  
SAWS

No. 50, Nickel-plated,	
each	\$1.00
No. 40, Polished, each	.75

Price does not include Blade.

## PLUMBERS' TOOLS

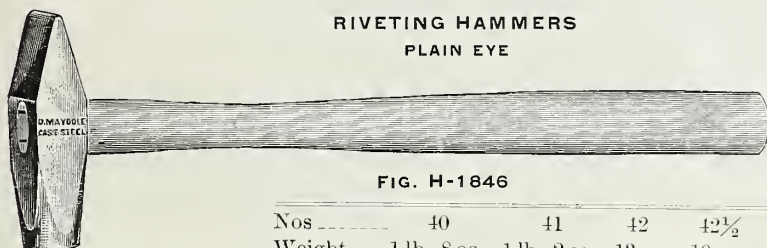
RIVETING HAMMERS  
PLAIN EYE

FIG. H-1846

Nos	40	41	42	42½	43	44
Weight	1 lb. 8 oz.	1 lb. 2 oz.	13 oz.	10 oz.	7 oz.	4 oz.
Per doz	\$8.50	7.25	6.00	5.50	5.25	5.00

## MACHINISTS' BALL PEIN HAMMERS

## OCTAGON

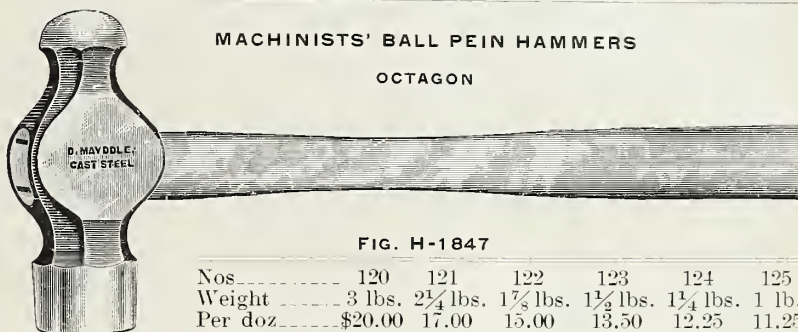


FIG. H-1847

Nos	120	121	122	123	124	125
Weight	3 lbs.	2¼ lbs.	1¾ lbs.	1½ lbs.	1¼ lbs.	1 lb.
Per doz	\$20.00	17.00	15.00	13.50	12.25	11.25

Nos	126	127	128	128½	129	129½
Weight	13 oz.	10 oz.	7 oz.	5 oz.	3 oz.	2 oz.
Per doz	\$10.50	10.00	9.50	9.25	9.00	9.00

ADZ EYE NAIL HAMMERS  
ROUND

FIG. H-1848

Nos	0	1	1½	2	3
Weight	1 lb. 10 oz.	1 lb. 4 oz.	1 lb.	13 oz.	7 oz.
Per doz	\$11.50	8.75	8.00	7.50	6.75

## TINNERS' MALLETS



FIG. H-1849

Best seasoned hickory, assorted, from 2 to 3 inches, per doz	\$1.50
Best seasoned hickory, 3 inches, per doz	1.75
Best seasoned hickory, 4 inches, per doz	2.50

# PLUMBERS' TOOLS

BRACE

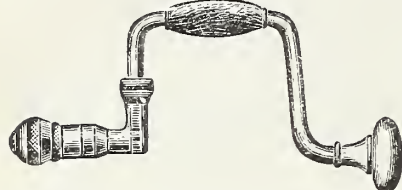


FIG. H-1850

BREAST DRILL

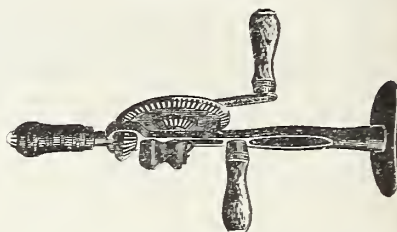


FIG. H-1851

Fig. H-1850—Each, net	\$1.75
Fig. H-1851—Each, net	5.00

SCREW DRIVER



FIG. H-1852

Small, 8 inch, each, net	.20
Large, 10 inch, each, net	.30

PLUMB BOB



FIG. H-1854

COMPASS SAW



FIG. H-1853

Fig. H-1853—Each, net	.25
Fig. H-1854—Small, each	.75
Fig. H-1854—Large, each	\$1.00

MEASURING TAPE



FIG. H-1855

With 1/2 inch Cotton Tape. Brass Bound Cases, Brass Folding Handles and Trimmings.

Number	710	711	712	713	714	715	716
Length, feet	25	30	40	50	66	75	100
Per dozen	\$3.75	4.00	4.50	5.00	6.00	7.50	9.00



## PLUMBERS' TOOLS

POCKET LEVEL

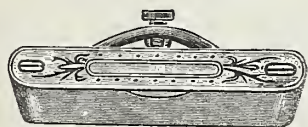


FIG. H-1856

Each, net ..... .25

TWO FOOT LEVEL



FIG. H-1857

\* Each, net ..... .75

WASHER CUTTER



FIG. H-1858

Each, net ..... \$1.00

COMPASS



FIG. H-1859

Size, inches .....	6	7	8
Each, net .....	.30	.35	.40

SPRING COMPASS

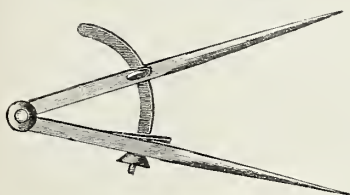


FIG. H-1860

Each, net ..... .50

CALIPER

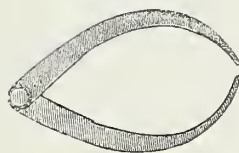


FIG. H-1861

6 inches, each, net ..... .30

RULE



FIG. H-1862

No. 68—Round Joint, Middle Plates, 8ths and 16ths of inches, 1 inch wide, per doz.....	\$2.50
No. 62—Square Joint, Full Bound, 8ths and 16ths of inch, Drafting Scales, 1 inch wide, per doz.....	8.00



## REVOLVING SPRING PUNCH

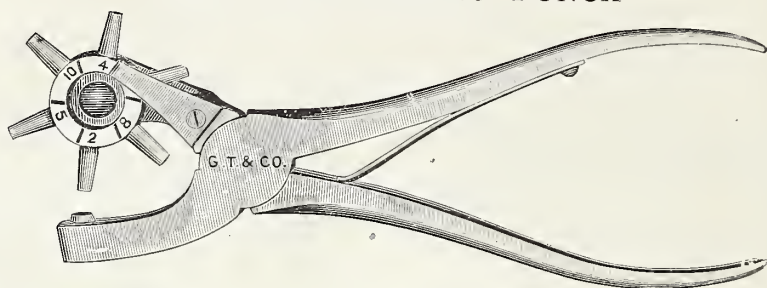


FIG. H-1863

With 4 Tubes, per dozen	\$18.00
With 6 Tubes, per dozen	21.00
Extra Tubes for same, per dozen	2.00

## PUNCH



FIG. H-1864

Nos. 00, 0, per dozen	\$2.50
Nos. 1, 2, 3, 4, 5, per dozen	2.00
Nos. 6, 7, 8, 9, per dozen	2.50
Nos. 10, 11, 12, per dozen	3.00
Nos. 13, 14, 15, 16, per dozen	5.00

## TINNERS SNIPS

STRAIGHT

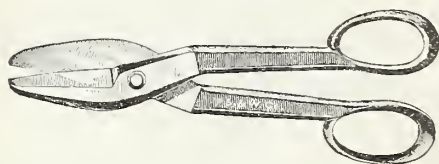


FIG. H-1865

CIRCULAR



FIG. H-1866

These Snips are drop-forged of steel, and the jaws are laid with high grade cast steel, properly hardened. The finish is strictly first class.

Number	6 1/2	7	8	9	10
Net Weight, ounces	48	41	32	23	16
Will Cut, inches	4 1/2	4	3 1/2	3	2 1/2
Straight Snips, per pair	\$3.00	2.50	2.00	1.50	1.40
Circular Snips, per pair	4.00	3.50	3.00	2.50	2.25

The Straight Snips are made in three styles. *Left Hand Snips*, the ordinary kind, have the handles shaped for the right hand, and they cut at the left side of the upper jaw. These are shown above, and will be sent unless otherwise ordered. *Right Hand Snips* also have the handles shaped for the right hand, but they cut at the right side of the upper jaw, like Bench Shears. *Snips for left-handed workmen* have the handles shaped for the left hand and the jaws for right hand cut. For Straight Snips for left handed workmen we make an extra charge of 50 cents net per pair. Circle Snips for left handed men \$1.00 net per pair extra.

BEEKMAN SMOKE MACHINE

MODEL No. 0



FIG. H-1867

FIG. H-1867

The New Model Beekman Smoke Machine.

Contains all essential features of the well-known Beekman Models.

Easily carried like an ordinary Plumber's Furnace.

Fan Blower, Double Tank, riveted and welded (no Solder).

Trap Outlet (Peppermint cup attached).

Strong—Durable.

Height, 23 inches; Width, 13½ inches; Weight, 45 lbs.

Each, net. \$28.00

HAND TORCH

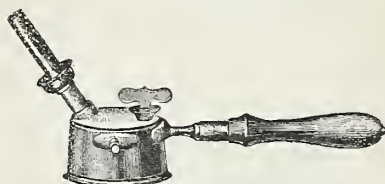


FIG. H-1868

Each \$4.00

THAWING STEAMER

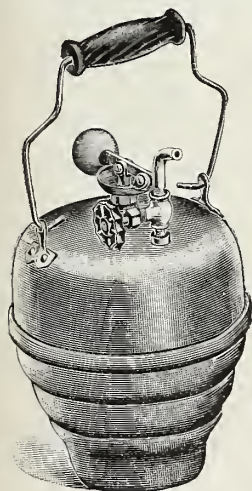


FIG. H-1869

GAS FITTERS' TORCH



FIG. H-1870

Tin, each .75  
Tin, Side Filler, each 1.00  
Brass, each 1.25  
Brass, Side Filler, each 1.50

LAMP



FIG. H-1871

Each \$5.50

Each .50

## PLUMBERS' FURNACES AND TORCHES

NO. 1—FIRE POT

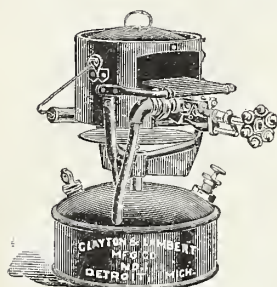


FIG. H-1872

NO. 6—FIRE POT

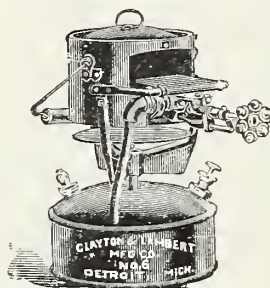


FIG. H-1873

NO. 10—FIRE POT

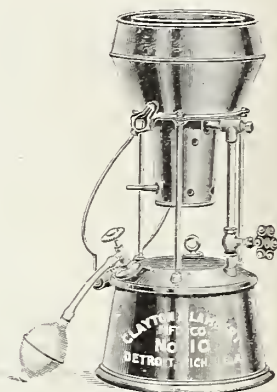


FIG. H-1874

NO. 20—FIRE POT

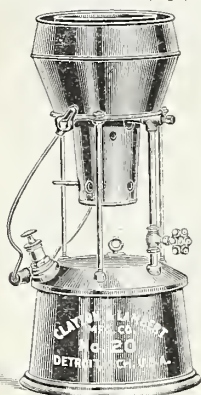


FIG. H-1875

NO. 32—TORCH



FIG. H-1876

NO. 31—TORCH



FIG. H-1877

NO. 8—TORCH

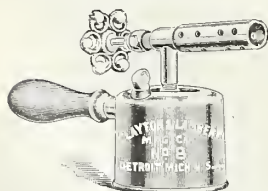


FIG. H-1878

Fig. H-1872—Each	\$6.00
Fig. H-1873—Each	4.00
Fig. H-1874—Each	3.75
Fig. H-1875—Each	4.00
Fig. H-1876—Each	4.00
Fig. H-1877—Each	3.75
Fig. H-1878—Each	3.00

## STEEL PLATE PORTABLE FORGES

WITH GEARED HAND BLOWERS

No. 604



FIG. H-1879

No. 605

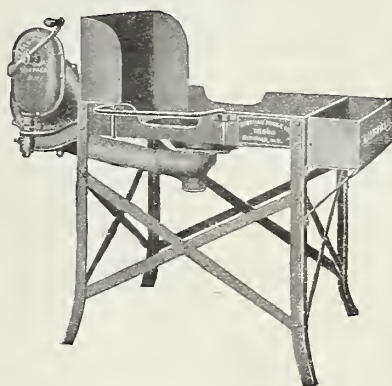


FIG. H-1880

These Portable Forges, Nos. 604, 605, meet the requirements for a light forge of large capacity. These forges are constructed entirely of heavy rolled steel, well reinforced and braced. Light and graceful in design, they will stand the roughest handling without danger of cracking or other injury. They are intended for general smithy use where a powerful blower and deep fire pan (4 inches) adapt them for a wide range of work. Strong and efficient, their light weight and freedom from injuries in shipping fit them for difficult transportation. Furnished with work support and painted a handsome machinery gray. Hood takes 8 inch smoke pipe.

	Fig. H-1879	Fig. H-1880
No. of Forge.....	No. 604	No. 605
Size of Hearth, inches.....	30 x 36	30 x 40
Height to Top of Fire Pan, inches.....	33	33
Diameter of Fan Case, inches.....	12	12
Size of Tank, inches.....	30 x 9 x 6	30 x 9 x 6
Shipping Weight, pounds.....	200	225
Price with Tank.....	\$70.00	75.00
Price without Tank.....	65.00	70.00



MELTING FURNACES

WITH MELTING POT, SWING GRATE, STEP ARMS AND HOOK BAR

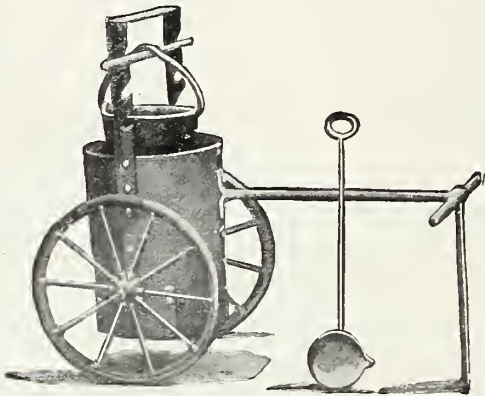


FIG. H-1881

MOUNTED ON WHEELS, AS SHOWN

Diameter of Furnace, inches.	Diameter of Pot, inches.	Depth of Pot, inches.	Capacity of Pot, pounds.	Diameter of Ladle, inches.	Price Complete.
18	13½	6⅝	200	6	\$33.00
24	13¼	9½	450	8	38.50
30	18	13	850	10	49.50

IF UNMOUNTED

Diameter of Furnace, inches.	Diameter of Pot, inches.	Depth of Pot, inches.	Capacity of Pot, pounds.	Diameter of Ladle, inches.	Price Complete.
18	13½	6⅝	200	6	\$26.00
24	13¼	9½	450	8	31.00
30	18	13	850	10	38.40

FOR

Pig Lead

Copper

Spelter

Antimony

Block Tin

Solder

Babbitt and other Metals

Oakum

Yarn and other Packings

Ladles

Rammers

Calking Chisels

Shovels

Picks

Barrows

Etc.

Etc.

Write for prices.

Orders for above will be filled at Market figures.



## METALS

SOLDERS  
OUR BEST



FIG. H-1882

Guaranteed 100 parts Tin to 100 parts Lead.



FIG. H-1883

Made in short, heavy Bars, from 100 parts Tin to 100 parts Lead,



FIG. H-1884

Made in long Bars. From 100 parts Tin to 100 parts Lead.



FIG. H-1885

Made from 100 parts Tin to 100 parts Lead.

"STRICTLY"

Made from 90 parts Tin to 100 parts Lead.



FIG. H-1886

FIG. H-1886

EXTRA QUALITY WIPING

In 5 lb. Ingots.

Made from 40 parts Tin to 60 parts Lead.

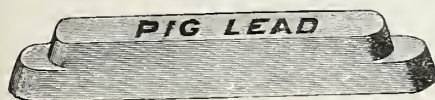


FIG. H-1887



FIG. H-1888

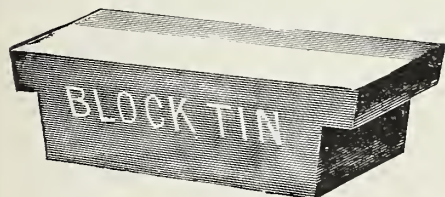


FIG. H-1889

BABBITT

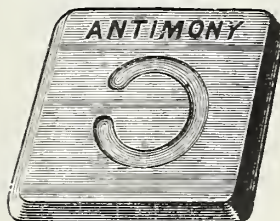


FIG. H-1890

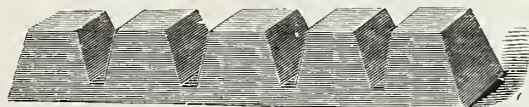


FIG. H-1891

Always on hand, and supplied to the trade at market rates.

## MURRAY'S COMPRESSED LEAD SASH WEIGHTS

ROUND OR SQUARE

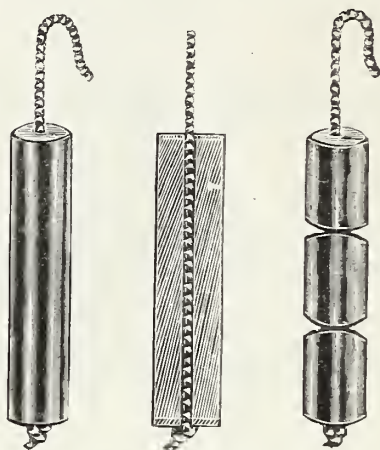


FIG. H-1892

Made from solid Lead under hydraulic pressure, with  $\frac{3}{8}$  inch hole in center to accommodate the sash cord, securing great density and perfect smoothness. No iron is used in their construction, so that the minimum of space is required. This is frequently important with heavy sash, as *iron weights occupy nearly twice as much space as these.*

They are center balanced, can be cut in sections to accommodate small pockets, have no bolts to unscrew, no eyes to pull out, while the cord tied with knot at lower end, as shown, is less liable to wear. *Their cost is very reasonable* and they are positively in every respect the most convenient and desirable to use.

We make all sizes and can furnish them of exact weight for each sash to order, or in lengths of about ten feet to be sawed up as desired, by the carpenter, when hanging the sash.

TABLE OF APPROXIMATE WEIGHTS

Round. Outside diameter, inches	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{5}{8}$	1 $\frac{3}{4}$	2	2 $\frac{1}{4}$	2 $\frac{1}{2}$
Weight per lineal foot, pounds	5 $\frac{1}{4}$	6 $\frac{3}{8}$	8	9 $\frac{3}{4}$	11 $\frac{5}{8}$	15	19	23

N. B.—Nothing we make has been received with so much favor as these Sash Weights, which we have shipped to all sections of this country.

For square Weights, add 25 per cent.

# CHARLES MILLAR & SON CO.'S SCALE OF WEIGHTS OF LEAD PIPES

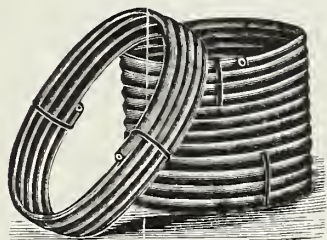


FIG. H-1893

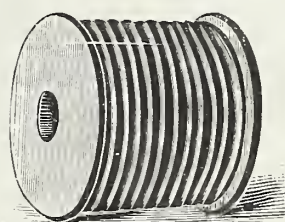


FIG. H-1894

Caliber and Mark		Weight, per foot		Caliber and Mark		Weight, per foot		Caliber and Mark		Weight, per foot	
		lbs.	oz.			lbs.	oz.			lbs.	oz.
$\frac{1}{4}$ in.	E	0	5	$\frac{3}{4}$ in.	C	1	12	2 in.	AAA	10	11
$\frac{3}{8}$ in.	AAA	1	12	$\frac{3}{4}$ in.	D	1	3	2 in.	AA	8	14
$\frac{1}{2}$ in.	AA	1	5	$\frac{3}{4}$ in.	E	1	0	2 in.	A	7	0
$\frac{5}{8}$ in.	A	1	2	1 in.	AAA	6	0	2 in.	B	6	0
$\frac{3}{4}$ in.	B	1	0	1 in.	AA	4	8	2 in.	C	5	0
$\frac{7}{8}$ in.	C	0	14	1 in.	A	4	0	2 in.	D	4	0
1 in.		0	10	1 in.	B	3	4	2 in.	Waste	3	0
$1\frac{1}{8}$ in.	D	0	7	1 in.	C	2	8	$2\frac{1}{2}$ in.	$\frac{3}{8}$ thick	16	11
$1\frac{1}{4}$ in.		0	$9\frac{1}{2}$	1 in.	D	2	4	$2\frac{1}{2}$ in.	$\frac{5}{16}$ thick	13	10
$1\frac{1}{2}$ in.	AAA	3	0	1 in.	D	2	0	$2\frac{1}{2}$ in.	$1\frac{1}{4}$ thick	10	10
$1\frac{3}{4}$ in.		2	8	1 in.	E	1	8	$2\frac{1}{2}$ in.	$\frac{3}{16}$ thick	7	13
$1\frac{1}{2}$ in.	AA	2	0	$1\frac{1}{4}$ in.	AAA	6	12	$2\frac{1}{2}$ in.	Waste	6	0
$1\frac{1}{4}$ in.	A	1	10	$1\frac{1}{4}$ in.	AA	5	12	$2\frac{1}{2}$ in.	Waste	4	0
$1\frac{1}{2}$ in.	B	1	3	$1\frac{1}{4}$ in.	A	4	11	3 in.	$\frac{3}{8}$ thick	19	9
$1\frac{1}{4}$ in.	C	1	0	$1\frac{1}{4}$ in.	B	3	11	3 in.	$\frac{1}{4}$ thick	16	0
$1\frac{1}{2}$ in.	D	0	12	$1\frac{1}{4}$ in.	C	3	0	3 in.	$\frac{1}{4}$ thick	12	9
$1\frac{1}{4}$ in.	D	0	10	$1\frac{1}{4}$ in.	D	2	8	3 in.	$\frac{3}{16}$ thick	9	4
$1\frac{1}{2}$ in.	D	0	9	$1\frac{1}{4}$ in.	E	2	0	3 in.	Waste	5	0
$1\frac{3}{4}$ in.	AAA	3	8	$1\frac{1}{2}$ in.	AAA	8	0	3 in.	Waste	3	8
$1\frac{1}{2}$ in.	AA	2	12	$1\frac{1}{2}$ in.	AA	7	0	$3\frac{1}{2}$ in.	$\frac{3}{8}$ thick	22	8
$1\frac{1}{4}$ in.	A	2	8	$1\frac{1}{2}$ in.	A	6	4	$3\frac{1}{2}$ in.	$\frac{1}{2}$ thick	18	7
$1\frac{1}{2}$ in.	B	2	0	$1\frac{1}{2}$ in.	B	5	0	$3\frac{1}{2}$ in.	$1\frac{1}{4}$ thick	14	8
$1\frac{1}{4}$ in.	C	1	7	$1\frac{1}{2}$ in.	C	4	4	$3\frac{1}{2}$ in.	$\frac{3}{16}$ thick	10	12
$1\frac{1}{2}$ in.	D	1	4	$1\frac{1}{2}$ in.	D	3	8	4 in.	$\frac{1}{2}$ thick	25	6
$1\frac{1}{4}$ in.	D	1	0	$1\frac{1}{2}$ in.	D	3	0	4 in.	$\frac{5}{16}$ thick	20	14
$1\frac{1}{2}$ in.	E	0	12	$1\frac{1}{2}$ in.	Waste	E	2	0	$1\frac{1}{4}$ thick	16	7
$1\frac{3}{4}$ in.	AAA	4	14	$1\frac{3}{4}$ in.	AA	8	8	4 in.	$\frac{3}{16}$ thick	12	2
$1\frac{1}{4}$ in.		4	0	$1\frac{3}{4}$ in.	A	6	7	4 in.	Waste	8	0
$1\frac{1}{2}$ in.	AA	3	8	$1\frac{3}{4}$ in.	B	5	0	4 in.	Waste	6	0
$1\frac{1}{4}$ in.	A	3	0	$1\frac{3}{4}$ in.	C	4	0	4 in.	Waste	5	0
$1\frac{1}{2}$ in.	B	2	3	$1\frac{3}{4}$ in.	D	3	10	5 in.	Waste	7	8

## LEAD TUBING

 $\frac{1}{8}$  inch, weight, 3 oz. $\frac{1}{4}$  inch, weight, 5 oz.

PURE BLOCK TIN PIPE



FIG. H-1895

SCALE OF WEIGHTS

Caliber, in.	Weight, per foot.	Weight, per foot.	Caliber, in.	Weight, per foot.	Weight, per foot.
$\frac{1}{8}$	3 oz.	----	$\frac{5}{8}$	9 oz.	14 oz.
$\frac{1}{4}$	5 oz.	----	$\frac{3}{4}$	11 oz.	1 lb.
$\frac{5}{16}$	6½ oz.	----	1	14 oz.	1 lb. 4 oz.
$\frac{3}{8}$	4½ oz. 5 oz.	8 oz.	$\frac{1}{4}$	-----	1 lb. 8 oz.
$\frac{1}{2}$	6½ oz.	10 oz.			

TIN LINED LEAD PIPE

Weights and sizes same as Lead Pipe.

N. B.—Our Machinery is of the latest and most improved description. Our Pipe is made in the most accurate and true manner, from the best quality of Pig Metal. NO OLD METALS USED. Great care is taken in packing and shipping, while our improved Reels, having large centers, are especially liked by the trade. A trial order is solicited. We desire also to state here, we are not members of “the combination” and probably never will be.

SHEET LEAD

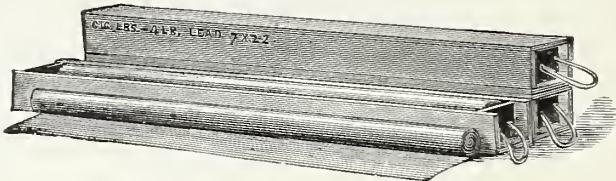


FIG. H-1896

Weights of Sheet Lead.

Wire Gauge, No. 18—Weight per square foot.....	2½ lbs.
Wire Gauge, No. 17—Weight per square foot.....	3 lbs.
Wire Gauge, No. 16—Weight per square foot.....	3½ lbs.
Wire Gauge, No. 15—Weight per square foot.....	4 lbs.
Wire Gauge, No. 14—Weight per square foot.....	4½ lbs.
Wire Gauge, No. 13—Weight per square foot.....	5 lbs.
Wire Gauge, No. 12—Weight per square foot.....	6 lbs.
Wire Gauge, No. 11—Weight per square foot.....	7 lbs.
Wire Gauge, No. 10—Weight per square foot.....	8 lbs.



## APOLLO BEST BLOOM GALVANIZED IRON SHEETS

## PRICE LIST

Adopted July 1, 1893.



Nos. 10 to 16, inclusive, per pound	.12
Nos. 17 to 21, inclusive, per pound	.13
Nos. 22, 23 and 24	.14
Nos. 25 and 26	.15
No. 27	.16
No. 28	.17
No. 29	.19
No. 30	.21

ADDITIONAL PRICES ON EXTRA SIZES  
EXTRA WIDTHS

Nos. 16, 17 and 18:	Per lb.
Over 36 in. to 40 in., inclusive	1 cent
Over 40 in. to 44 in., inclusive	1½ cent
Over 44 in. to 48 in., inclusive	2½ cent
No. 19 and lighter:	
Less than 24 in. wide	1 cent
Over 32 in. to 36 in., inclusive	1 cent
Over 36 in. to 40 in., inclusive	2 cent
Over 40 in. to 44 in., inclusive	3 cent
Over 44 in. to 48 in., inclusive	5 cent

## EXTRA LENGTHS

Longer than 120 inches, per lb	1 cent
--------------------------------	--------

FIG. H-1897

One-half cent per pound additional for pattern sheet, *i. e.*, for all iron of which every sheet in each bundle is required to be of exact length specified, or where iron is ordered in sheets, all of which are required to be of the same length. But iron of any length, in Bundles, in which one or two sheets of the same number and width, but shorter than the full length ordered, are allowed to be put in each bundle, will be considered ordinary length, or merchant iron, and will not be subject to any extra for length.

## NUMBER OF SHEETS USUALLY PACKED IN BUNDLES

	24 inch.	26 inch.	28 inch.	30 inch.	36 inch.
No. 18	5	4	4	4	Loose.
No. 20	6	5	5	5	4
No. 22	7	7	6	6	5
No. 24	10	9	8	8	6
No. 25	10	9	8	8	--
No. 26	11	10	9	9	7
No. 27	11	10	9	9	--
No. 28	12	11	10	9	--

## WEIGHTS OF SHEETS

## PER SQUARE FOOT—GALVANIZED

No. 10	92½ ounces	No. 17	38½ ounces	No. 24	18½ ounces
No. 11	82½ ounces	No. 18	34½ ounces	No. 25	16½ ounces
No. 12	72½ ounces	No. 19	30½ ounces	No. 26	14½ ounces
No. 13	62½ ounces	No. 20	26½ ounces	No. 27	13½ ounces
No. 14	52½ ounces	No. 21	24½ ounces	No. 28	12½ ounces
No. 15	47½ ounces	No. 22	22½ ounces	No. 29	11½ ounces
No. 16	42½ ounces	No. 23	20½ ounces	No. 30	10½ ounces



**"WOOD'S" REFINED SMOOTH FINISHED SHEETS**

FIG. H-1898

**WOOD'S REFINED**

Standard Sizes and Gauges always in Stock.

**AMERICAN BESSEMER ONE PASS COLD ROLLED**

Standard Sizes and Gauges always in Stock.

FIG. H-1898

**PLANISHED SHEET IRON**

FIG. H-1899

**A**

Numbers 24, 25, 26, 27, 28.

**B**

Numbers 24, 25, 26, 27, 28.

Size 28 x 60 inches.

**LIST PRICE**

A, per pound	.....	.10
B, per pound	.....	.09

Average net weight per pack 250 lbs.

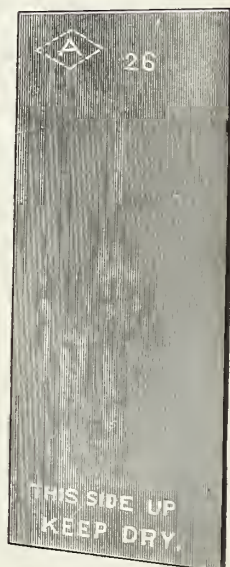
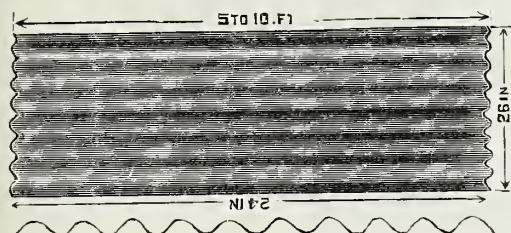


FIG H-1899

**CORRUGATED SHEETS****FOR ROOFING, SIDING AND CEILING**

Painted both Sides.

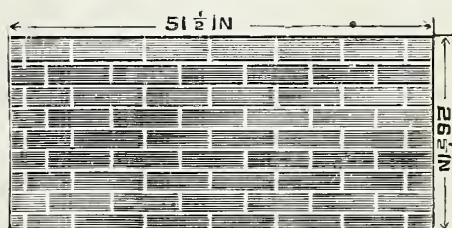
**FIG. H-1900****FIG. H-1900****2½ INCH CORRUGATED SHEET  
GAUGE NO. 28**

For Railroad Stations, Grain Elevators, Flour Mills, Lumber Mills, Cotton Gins, Warehouses, Ice Plants, Rolling Mills, Steel Works, Barns, Cattle Sheds, Smelters and all kinds of manufacturing buildings.

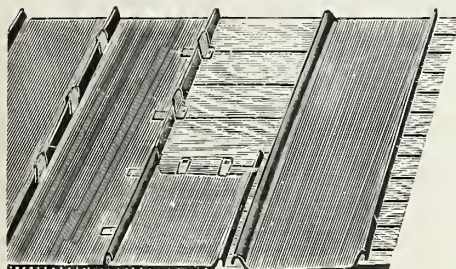
Sheets when corrugated measure 26 inches wide, and cover 24 inches from center to center of outside corrugations.

**FIG. H-1901****STEEL PRESSED BRICK**

Above cut shows Pressed Steel Brick siding ready for application. Can be applied by any mechanic. Lays perfectly smooth and after painting cannot be distinguished from finest pressed brick. A square of Pressed Steel Brick consists of 8 4-7 sheets, 60 inches long by 28 inches wide, painted on both sides.

**IMITATION STEEL BRICK  
THE MOST ORNAMENTAL STEEL SIDING MADE****FIG. H-1901****PRESSED STANDING SEAM ROOFING  
MADE OF PURE STEEL**

In Sheets 8 and 10 foot lengths.

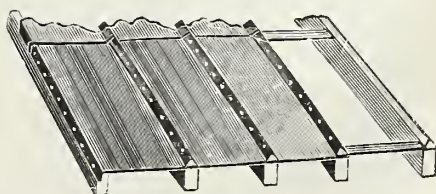
**FIG. H-1902****FIG. H-1902**

It is very simple in its application and effective in its construction. The sheets are formed with a cap on each side, which makes a stronger, better roof than when separate caps are used.

**FIG. H-1903**

May be laid over sheathing, shingles, lath or direct to rafters placed 24 inches from center, on any roof having more than 2 inches pitch per foot.

The ends of sheets can either be lapped 3 inches or more, or put together with lock joints.

**V CRIMP ROOFING****FIG. H-1903**

## ROLL STEEL ROOFING

GALVANIZED OR PAINTED

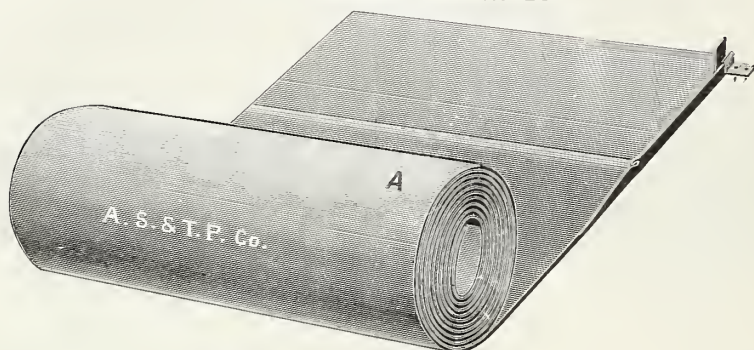


FIG. H-1904

Put up in rolls 50 feet long and 26 inches wide, lays 24 inches wide, and after making allowance for seams, one roll covers 100 square feet. Base 2 in., 2½ in. and 3 inch corrugated.

## BASE PRICE PER 100 SQUARE FEET

Differentials to be added to base	No. 28 Gauge		Differentials to be added to base	No. 28 Gauge	
	Painted	Galv.		Painted	Galv.
1¼ in. and 5/8 in. Corrugated	.10	.10	Pressed Sta'd'g seam (with cleats)	.25	.35
V Crimp, no sticks	.20	.05	Plain Roll, no fixture	.20	.25
V Crimp, with sticks	.10	.15	Plain Roll, with cleats	.25	.35
V Crimp, with end locks	.20	.15	Roll and Cap, with cap and cleats	.35	.60
3 V Crimp, no sticks	.10	.20	Pressed Brick Siding	.10	.10
3 V Crimp, with side sticks	.20	.30	Rock Faced Brick Siding	.25	.25
3 V Crimp, with side and center sticks	.30	.40	Rock Faced Stone Siding	.25	.25
Pressed Standing Seam, no cleats	.10	.20	Weather Board Siding	.30	.35
Pressed Standing Seam, with cleats	.15	.30	Beaded Siding and Ceiling	.20	.25

Double cross lock can be furnished at an additional cost of 5 cents a square.

## WEIGHTS PER SQUARE

	No. 28 Gauge			No. 28 Gauge	
	Painted	Galv'd		Painted	Galv'd
2 in., 2½ and 3 in. Corrugated	68 lbs.	85 lbs.	Roll and Cap, with caps and cleats	77 lbs.	93 lbs.

## RIDGING—GALVANIZED OR PAINTED

ANGLE RIDGE CAP

ROUND RIDGE ROLL



FIG. H-1905



FIG. H-1906

Made in 8 or 10 foot lengths.

## FIG. H-1905—ANGLE RIDGE CAP

Apron	Girt	No. 28 Gauge		No. 28 Gauge	
		Painted	Galvanized	Painted	Galvanized
3 inches	6 inches	11 cents per foot	13 cents per foot	13 cents per foot	15 cents per foot
3½ inches	7 inches	12 cents per foot	14 cents per foot	14 cents per foot	16 cents per foot
4 inches	8 inches	14 cents per foot	16 cents per foot	16 cents per foot	18 cents per foot
5 inches	10 inches	17 cents per foot	19 cents per foot	19 cents per foot	21 cents per foot
6 inches	12 inches	21 cents per foot	23 cents per foot	23 cents per foot	25 cents per foot
7 inches	14 inches	26 cents per foot	28 cents per foot	28 cents per foot	30 cents per foot

## FIG. H-1906—ROUND RIDGE ROLL

Diameter of Roll	Width of Apron	Girt	No. 28 Gauge		No. 28 Gauge	
			Painted	Galvanized	Painted	Galvanized
1¼ inches	1½ inches	7 inches	12 cents per foot	14 cents per foot	14 cents per foot	16 cents per foot
1½ inches	2 inches	8 inches	14 cents per foot	16 cents per foot	16 cents per foot	18 cents per foot
2 inches	2½ inches	10 inches	17 cents per foot	19 cents per foot	19 cents per foot	21 cents per foot
2½ inches	3 inches	12 inches	21 cents per foot	23 cents per foot	23 cents per foot	25 cents per foot
3 inches	3½ inches	14 inches	26 cents per foot	28 cents per foot	28 cents per foot	30 cents per foot

Every piece guaranteed straight and perfect in all respects. Prices on Heavier Gauges than No. 28, either style, quoted on application.

**CORRUGATED ROUND  
EXPANDING CONDUCTOR**



Made in 10 foot lengths.

Each length a perfect straight piece.

All sizes 2 to 6 inches can be nested in one crate.

**PLAIN ROUND AND  
CORRUGATED**

**NO. 28 GAUGE GALVANIZED**

2 inch, per foot	.13
3 inch, per foot	.15
4 inch, per foot	.20
5 inch, per foot	.25
6 inch, per foot	.30

Sold strictly on its merits.

FIG. H-1907

**CENTENNIAL  
RAIN WATER CUT-OFF**

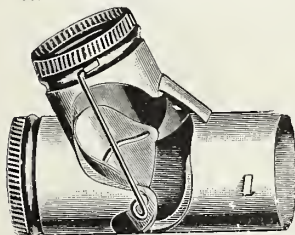


FIG. H-1909

Can be used in any position without extra pipe.

Put up in crates or one dozen each (assorted Right and Left Hand Wires), so they may be used in any position without extra pipe or elbows.

**GALVANIZED**

Size, inches	2	3	4	5
Per dozen	\$8.00	10.00	14.00	18.00

**CORRUGATED SQUARE  
EXPANDING CONDUCTOR**



FIG. H-1908

Made in 10 foot lengths.

Each length a perfect straight piece.

All sizes from 2 to 6 inches can be nested in one crate.

**NO. 28 GAUGE GALVANIZED**

$1\frac{3}{4} \times 2\frac{1}{4}$ in., equal to 2 inch Round,	
per foot	.14
$2\frac{3}{8} \times 3\frac{1}{4}$ in., equal to 3 inch Round,	
per foot	.16
$2\frac{3}{4} \times 4\frac{1}{4}$ in., equal to 4 inch Round,	
per foot	.21
$3\frac{3}{4} \times 5$ in., equal to 5 inch Round,	
per foot	.26

Sold strictly on its merits.

**CORRUGATED AND PLAIN ROUND  
CONDUCTOR ELBOWS AND SHOES**

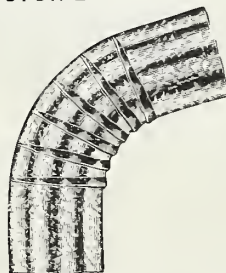


FIG. H-1910

Size, inches	2	3	4
Elbows, Galv., Round, each	.25	.30	.40
Shoes, Galv., Round, each	.30	.36	.48
Elbows, Galv., Square, each	.40	.45	.60
Shoes, Galv., Square, each	.48	.54	.72

---

Size, inches	5	6
Elbows, Galv., Round, each	.60	.72
Shoes, Galv., Round, each	.72	.86
Elbows, Galv., Square, each	.90	
Shoes, Galv., Square, each	1.08	

In ordering Elbows and Shoes purchasers will please state angles required.



## LAP JOINT EAVES TROUGH

## SINGLE BEAD, LAP JOINT



FIG. H-1911

Galvanized Iron, No. 28 Gauge.

Size, inches.....	3	3½	4	4½	5	6	7	8
Galvanized, per foot.....	.13	.14	.16	.18	.19	.23	.27	.30

Add to above list for Slip Joint 1 cent per foot ; for Double Bead 3 cents per foot.

Made in 10 foot Lengths. Packed in Cases of 250 feet.

Most Perfect and Uniform Trough on the market.

## MITRES—SINGLE BEAD

## OUTSIDE CORNER MITRE



FIG. H-1912

The Mitres are made complete. Ready for use, for both inside and outside Bead, either Slip or Lap Joint.

## NO. 28 GAUGE

	Slip Joint.	Lap Joint.
3½ inch, Galvanized Iron, per dozen.....	\$3.00	\$2.50
4 inch, Galvanized Iron, per dozen.....	3.25	2.75
4½ inch, Galvanized Iron, per dozen.....	3.40	2.90
5 inch, Galvanized Iron, per dozen.....	3.50	3.00
6 inch, Galvanized Iron, per dozen.....	4.00	3.50
7 inch, Galvanized Iron, per dozen.....	4.75	4.25
8 inch, Galvanized Iron, per dozen.....	5.50	5.00

For Double Bead Mitres add 50 cents per dozen to list

Unless otherwise ordered Half rights and lefts, Half inside and outside Slip Joint will be shipped.



## IMPERIAL STEEL EAVES TROUGH HANGER



Can be adjusted to any fall or pitch. No soldering required With rods and nuts complete.

Size, inches	3½	4	4½	5	6	7	8
Per gross	\$4.00	4.25	4.35	4.50	5.00	6.00	8.00
For Double Bead Gutter, add per gross	.25						

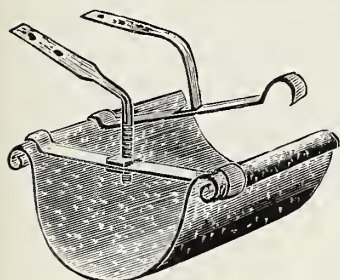
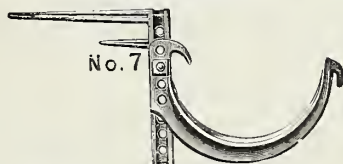
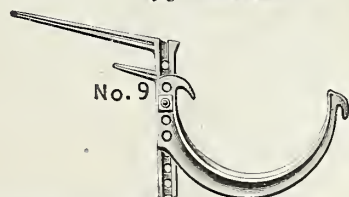


FIG. H-1913

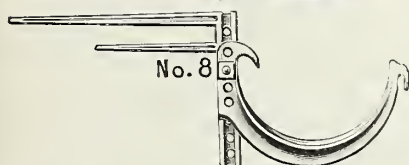
## GEM CIRCLES AND SHANKS



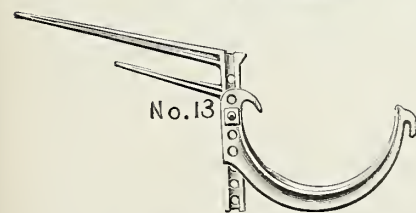
No. 7



No. 9



No. 8



No. 13

FIG. H-1915

## PERFECTION WIRE EAVES TROUGH HANGER

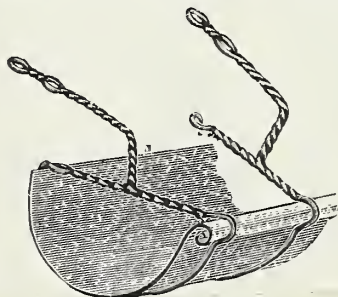


FIG. H-1914

It is made of best Galvanized Steel Wire, and can be quickly and easily adjusted to trough.

## PRICES PER GROSS.

Size, inches	3	3½	4	4½	5	6	7	8
Sgl. Bead	\$2.75	2.75	2.75	3.00	3.00	3.50	4.00	4.50
Dbl. Bead	3.00	3.00	3.00	3.25	3.25	3.75	4.25	4.75

## FIG. H-1915—GEM CIRCLES AND SHANKS

Put up 50 in a package.

## CIRCLES

## SHANKS

Size, inches	Per hundred	Per hundred
3, 3½ and 4	\$2.00	Nos. 7 and 9 \$2.00
4½ and 5	3.00	Nos. 8, 10, 13, 14 3.00
6	4.00	
7 and 8	5.00	
9 and 10	6.00	

One bolt included with each hinged shank. Additional bolts and straps extra.

Always state number of shanks and size of circle desired.

## CONDUCTOR HOOKS

HIEB'S

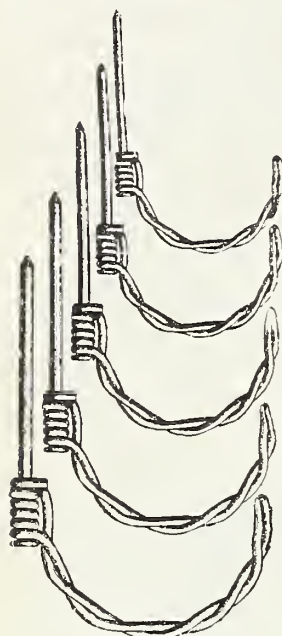


FIG. H-1916

Made from a piece of wire and a nail, yet one of the strongest hooks made.

Size, inches	Per hundred
2	\$1.75
2½	2.00
3	2.75
3½	3.50
4	4.25
5	6.00

FLASHING HOOKS

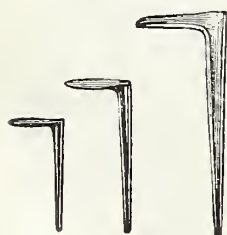


FIG. H-1919

Malleable Iron.

Per pound, net..... .12

HINGED



FIG. H-1917

PLAIN

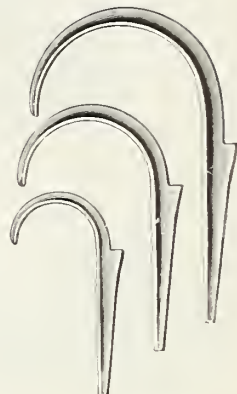


FIG. H-1918

FIG. H-1917—HINGED HOOKS

Size, inches	2	3	4	5
For Wood, Tinned, per 100	\$3.00	4.00	5.00	7.50
For Wood, Long Drive, Tinned, per 100	3.50	4.50	5.50	7.50
For Brick, Tinned, per 100	3.50	4.50	5.50	7.50

FIG. H-1918—PLAIN HOOKS

Size, inches	2	2½	3	3½	4	5	6
For Wood, Tinned, per 100	\$1.50	2.00	2.50	3.00	3.50	4.50	5.50
For Brick, Tinned, per 100	1.75	2.00	2.75	3.50	4.25	6.00	7.50

Always state whether Hooks are for Brick or Wood.

## CONDUCTOR STRAINER



FIG. H-1920

GALVANIZED WIRE CONDUCTOR STRAINERS

Size, inches	2	3	4	5	6
Round, per dozen	.60	.75	1.00	1.75	2.00

COLEMAN'S ADJUSTABLE GALVANIZED SPOUT GUARD

No. 1—Galvanized, adjustable 2 in. to 4 in. Pipe, per dozen	.65
No. 2—Galvanized, adjustable 5 in. to 6 in. Pipe, per dozen	1.50

## LOCK-SEAM STANDARD SPEAKING TUBE



FIG. H-1921

A sample, which will be mailed to any address furnished, will show for itself the beauty and excellence of this machine-made tube. It is offered at the following prices:

1 inch Tube, per 1,000 feet (in 5 ft. lengths)	-----	\$24.00
1 inch Tube, per 100 feet (in 5 ft. lengths)	-----	3.00
1 1/4 inch Tube, per 1,000 feet (in 5 ft. lengths)	-----	36.00
1 1/4 inch Tube, per 100 feet (in 5 ft. lengths)	-----	4.50
1 1/2 inch Tube, per 1,000 feet (in 5 ft. lengths)	-----	44.00
1 1/2 inch Tube, per 100 feet (in 5 ft. lengths)	-----	5.50

## STANDARD STAMPED ROUND ELBOWS AND TEES

## ELBOW

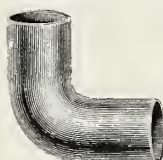


FIG. H-1922

1 inch, per 100	-----	\$6.00
1 inch, per doz	-----	1.00
1 1/4 inch, per 100	-----	9.00
1 1/4 inch, per doz	-----	1.50
1 1/2 inch, per 100	-----	12.00
1 1/2 inch, per doz	-----	2.00

## TEE

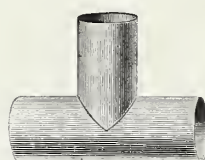


FIG. H-1923

1 inch, per 100	-----	\$7.00
1 inch, per doz	-----	1.20
1 1/4 inch, per 100	-----	8.50
1 1/4 inch, per doz	-----	1.50
1 1/2 inch, per 100	-----	10.00
1 1/2 inch, per doz	-----	2.00

## WHISTLE

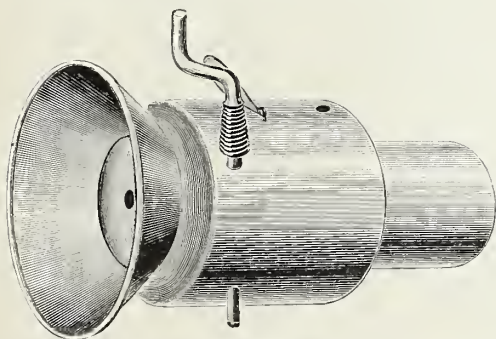


FIG. H-1924

## MOUTH PIECE

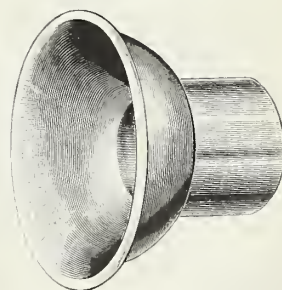


FIG. H-1925

No. 2 Indicator, Porcelain, per doz	-----	\$2.25
No. 2 Plain, Porcelain, per doz	-----	2.25
No. 3 Indicator, all Nickel, per doz	-----	3.00
No. 3 Plain, all Nickel, per doz	-----	3.00

Nickel only, per doz ----- \$2.50

## AMERICAN ROOFING TERNES

Manufactured expressly for us, under our own brands and carried constantly in our warehouses for immediate shipment.

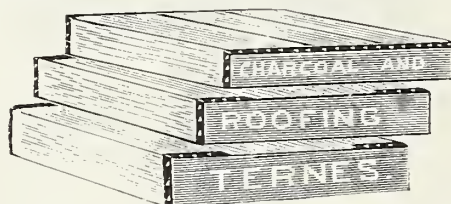


FIG. H-1926

We offer at extremely low rates the following:

**IC 20 X 28 IRONDALE B, 200 LB.,**  
Superior to Dean Grade.

**IC 20 X 28 IRONDALE A,**  
Superior to Worcester Grade.

**IC 20 X 28 AMERICAN SPECIAL**

**AMERICAN OLD STYLE A**  
20 lbs. Coating.

**"IRONDALE OLD STYLE," REDIPPED**  
Superior to Pontymister Old Style.

**IC 20 X 28 M. F.**

**GENUINE CHARCOAL OLD STYLE**

All of our Roofing Ternes are stamped; resquared and carefully assorted and shipped in exceptionally strong packages, thus ensuring safe delivery to consignee.

### FLAT SEAM ROOFING

A full box 20 x 28, 112 sheets, will cover approximately 380 square feet. Flat Seam.  
A full box 14 x 20, 112 sheets, will cover approximately 180 square feet.

### STANDING SEAM TIN ROOFING

A full box 20 x 28, 112 sheets, will cover approximately 370 square feet.  
A full box 14 x 20, 112 sheets, will cover approximately 170 square feet.

## AMERICAN BRIGHT TIN PLATES

### ALLAWAY GRADE CHARCOAL

			Sheets	Net Wt.
A Grade	IC	14 x 20	112	107 lbs.
A Grade	IC	10 x 14	225	107 lbs.
A Grade	IC	12 x 12	225	110 lbs.
A Grade	IC	20 x 28	112	214 lbs.
A Grade	IX	14 x 20	112	135 lbs.
A Grade	IX	10 x 14	225	135 lbs.
A Grade	IX	12 x 12	225	139 lbs.
A Grade	IX	20 x 28	112	270 lbs.
A Grade	IXX	14 x 20	112	155 lbs.
A Grade	IXX	12 x 12	225	159 lbs.
A Grade	IXX	20 x 28	56	155 lbs.
A Grade	IXXX	14 x 20	112	175 lbs.
A Grade	IXXX	20 x 28	56	175 lbs.
A Grade	IXXXX	14 x 20	112	195 lbs.
A Grade	IXXXX	20 x 28	56	195 lbs.

### HEATER PIPE

IC and IX, 20 x 26½,	for 8 inch Pipe.
IC and IX, 20 x 29½,	for 9 inch Pipe.
IC and IX, 20 x 32½,	for 8 inch Pipe.
IC and IX, 20 x 36,	for 11 inch Pipe.
IC and IX, 20 x 39,	for 12 inch Pipe.



## SCHEDULE OF EXTRAS FOR HOT ROLLED SHEET COPPER

Adopted January 19, 1899.

SIZES OF SHEETS.		64 oz. & over 50 lb. sheet, 30x60 and heavier	32 oz. up to 64 oz. 25 to 50 lb. sheet, 30x60	24 oz. up to 32 oz. 18 $\frac{3}{4}$ to 25 lb. sheet, 30x60	16 oz. up to 24 oz. 12 $\frac{1}{2}$ to 18 $\frac{1}{4}$ lb. sheet, 30x60	14 oz. and 15 oz. 11 to 12 $\frac{1}{2}$ lb. sheet, 30x60	12 oz. and 13 oz. 9 $\frac{1}{2}$ to 11 lb. sheet, 30x60	10 oz. and 11 oz. 7 $\frac{3}{4}$ to 9 $\frac{1}{2}$ lb. sheet, 30x60	8 oz. and 9 oz. 6 $\frac{1}{4}$ to 7 $\frac{1}{4}$ lb. sheet, 30x60	Lighter than 8 oz.
WIDTH.	LENGTH.	CENTS PER POUND ADVANCE OVER BASE PRICE.								
Not wider than 30 inches.	Not longer than 72 in.	Base	Base	Base	Base	1	2	3	6	9
	Longer than 72 in. Not longer than 96 in.	Base	Base	Base	Base	1	3	6	9	
	Longer than 96 in.	Base	Base	Base	Base	2	6			
Wider than 30 in. but not wider than 36 in.	Not longer than 72 in.	Base	Base	Base	Base	2	4	7	10	
	Longer than 72 in. Not longer than 96 in.	Base	Base	Base	Base	2	6	9		
	Longer than 96 in. Not longer than 120 in.	Base	Base	Base	1	3				
	Longer than 120 in.	Base	Base	1	2					
Wider than 36 in. but not wider than 48 in.	Not longer than 72 in.	Base	Base	1	2	4	7	10		
	Longer than 72 in. Not longer than 96 in.	Base	Base	1	3	5	8			
	Longer than 96 in. Not longer than 120 in.	Base	Base	2	4	8				
	Longer than 120 in.	Base	1	3	6					
Wider than 48 in. but not wider than 60 in.	Not longer than 72 in.	Base	Base	1	3	6	11			
	Longer than 72 in. Not longer than 96 in.	Base	Base	2	4	9				
	Longer than 96 in. Not longer than 120 in.	Base	1	3	6					
	Longer than 120 in.	1	2	4	8					
Wider than 60 in. but not wider than 72 in.	Not longer than 96 in.	Base	1	3	8					
	Longer than 96 in. Not longer than 120 in.	Base	2	5	10					
	Longer than 120 in.	1	3	8						
Wider than 72 in. but not wider than 108 in.	Not longer than 96 in.	1	3	6						
	Longer than 96 in. Not longer than 120 in.	2	4	7						
	Longer than 120 in.	3	5	9						
Wider than 108 in.	Not longer than 132 in.	4	6							
	Longer than 132 in.	5	8							

## EXTRAS

Circles, Segments and Pattern Sheets, three (3) cents per pound advance over prices of Sheet Copper required to cut them from.

All Cold or Hard Rolled Copper, 14 oz. per square foot and heavier, one (1) cent per pound over the foregoing price.

All Cold or Hard Rolled Copper, lighter than 14 oz. per square foot, two (2) cents per pound over the foregoing prices.

Cold Rolled and Annealed Copper, Sheets and Circles, wider than 17 inches, take the same price as Cold or Hard Rolled Copper of corresponding dimensions and thickness.

All Polished Copper, 20 inches wide and under, one (1) cent per pound advance over the price for Cold Rolled Copper.

All Polished Copper, over 20 in. wide, two (2) cents per pound advance over the price for Cold Rolled Copper.

Cold Rolled Copper prepared suitably for polishing, same prices and extras as Polished Copper.

Polished Copper one (1) cent per pound more than Polished Copper.

## SHEET ZINC

Gauge No. 9.

Stock Size, 36 x 84.

Lowest market price per pound.



# STOVE BOLTS



FIG. H-1927



FIG. H-1928

FLAT AND ROUND HEAD STOVE BOLTS—PRICE PER HUNDRED  
REVISED LIST, MARCH 1, 1907

LENGTH, INCHES.	DIAMETER, INCHES.				
	$\frac{1}{8}$ and $\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$ and $\frac{3}{4}$	$\frac{7}{8}$	$1$
$\frac{3}{8}$	.85	.85	---	---	---
$\frac{1}{2}$	.85	.85	\$1.20	---	---
$\frac{5}{8}$	.85	.85	1.20	---	---
$\frac{3}{4}$	.85	.85	1.20	\$1.75	\$2.65
$\frac{7}{8}$	.90	.90	1.25	1.80	2.70
1	.90	.90	1.30	1.85	2.75
$1\frac{1}{8}$	.95	.95	1.35	1.90	2.85
$1\frac{1}{4}$	1.00	1.00	1.40	1.95	2.90
$1\frac{3}{8}$	1.05	1.05	1.45	2.00	3.00
$1\frac{1}{2}$	1.10	1.10	1.50	2.05	3.10
$1\frac{3}{4}$	1.15	1.15	1.55	2.15	3.20
2	1.20	1.20	1.60	2.30	3.40
$2\frac{1}{4}$	---	1.25	1.70	2.40	3.60
$2\frac{1}{2}$	---	1.30	1.80	2.50	3.80
$2\frac{3}{4}$	---	1.40	1.90	2.60	4.00
3	---	1.50	2.00	2.70	4.20
$3\frac{1}{4}$	---	1.60	2.10	2.85	4.40
$3\frac{1}{2}$	---	1.70	2.20	3.00	4.60
$3\frac{3}{4}$	---	1.80	2.30	3.15	4.80
4	---	1.90	2.40	3.30	5.00
$4\frac{1}{4}$	---	2.00	2.50	3.45	5.20
$4\frac{1}{2}$	---	2.10	2.60	3.60	5.40
$4\frac{3}{4}$	---	2.20	2.70	3.75	5.60
5	---	2.30	2.85	3.90	5.80
$5\frac{1}{4}$	---	2.40	3.00	4.10	6.00
$5\frac{1}{2}$	---	2.50	3.15	4.30	6.20
$5\frac{3}{4}$	---	2.60	3.30	4.50	6.40
6	---	2.75	3.45	4.70	6.60
$6\frac{1}{4}$	---	2.90	3.60	4.90	6.80
$6\frac{1}{2}$	---	3.05	3.75	5.10	7.00

# SINK BOLTS

REVISED LIST, MARCH 1, 1907

PRICE PER HUNDRED

Length, inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{3}{4}$	3	$3\frac{1}{2}$	4
Diameter, $\frac{1}{4}$ inch	\$1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.70	2.90

## TINNERS RIVETS

## BLACK AND TINNED IRON

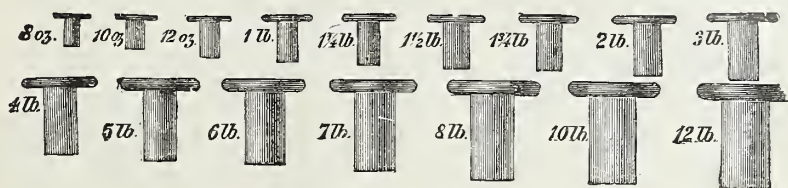


FIG. H-1929

Size.	Black, in packages of 1000, per thousand.	Black, in 10 and 5 pound boxes, per pound.	Tinned, in packages of 1000, per thousand.	Tin-plated, in packages of 1000, per thousand.
8 oz.	.20	.42	.28	.24
10 oz.	.22	.38	.31	.27
12 oz.	.24	.35	.35	.30
14 oz.	.26	.33	.39	.33
1 lb.	.27	.30	.42	.35
1 1/4 lb.	.29	.27	.48	.39
1 1/2 lb.	.33	.26	.55	.45
1 3/4 lb.	.37	.25	.64	.51
2 lb.	.42	.24	.72	.58
2 1/2 lb.	.55	.24	.83	.75
3 lb.	.60	.23	1.05	.84
3 1/2 lb.	.70	.23	1.22	.98
4 lb.	.76	.22	1.36	1.08
5 lb.	.90	.22*	1.65	1.30
6 lb.	1.08	.21*	1.98	1.56
7 lb.	1.26	.21*	2.31	1.82
8 lb.	1.44	.21*	2.64	2.08
9 lb.	1.53	.21*	2.88	2.25
10 lb.	1.75	.20*	3.25	2.55
12 lb.	1.98	.19 1/2	3.76	2.92
14 lb.	2.31	.19 1/2	4.41	3.43
16 lb.	2.64	.19 1/2	5.04	3.92

NET EXTRAS—For Metallic Tinning, add  $2\frac{1}{2}$  cents per lb. For Tin Plating, add 1 cent per lb.

LIST REBATES—For 25 and 50 lb. boxes, deduct 2 cents per lb. For 100 and 200 lb. kegs, deduct 4 cents per lb.

Oval or Countersunk Heads, or extra lengths, 10 cents per 1,000 in addition to the above prices.

\*Barrel Rivets.

MALLEABLE RETINNED KETTLE EARS

Kettle Ears when shipped in bulk are packed 50 lb. in a box.

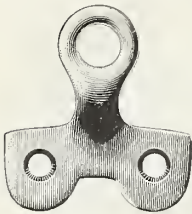


FIG. H-1930

Medium Pattern.

Size,  $1\frac{7}{16} \times 1\frac{1}{2}$  inches.

Tinned, per lb., bulk . . . . .20  
Tinned, per gr., boxed \$1.00

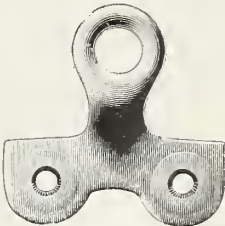


FIG. H-1931

Size,  $1\frac{5}{8} \times 1\frac{3}{4}$  inches.

Tinned, per lb., bulk . . . . .20  
Tinned, per gr., boxed \$1.50

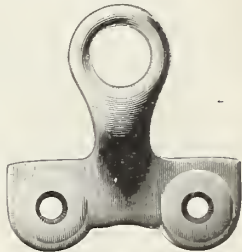


FIG. H-1932

Heavy Pattern.

Size,  $1\frac{3}{4} \times 1\frac{1}{8}$  inches.

Tinned, per lb., bulk . . . . .20  
Tinned, per gr., boxed \$1.80

PERFORATED TIN

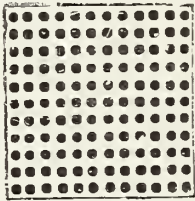


FIG. H-1934

Nos.	2	3	4
	Med. Coarse, Med. Coarse.		
Perforation to the inch	15	12	10
Size, 14 x 20—	112 Sheets.		

Per Dozen Sheets, net . . . . . \$2.50

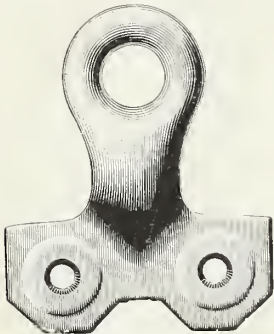


FIG. H-1933

2 x  $2\frac{5}{8}$  inches.

Bulk, per lb . . . . . .18  
Gross . . . . . \$5.40

BRASS WIRE CLOTH

Rolls of Five Square Feet.

Mesh Nos.	50	60
Per Roll, 5 square feet, net	1.25	.90

ENAMELED PAIL WOODS

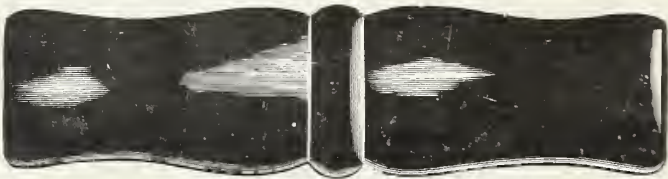


FIG. H-1935

Size, inches	3	$3\frac{1}{2}$	4
Per 100, net	.70	.80	1.00

## ELASTIC ROOFING CEMENT

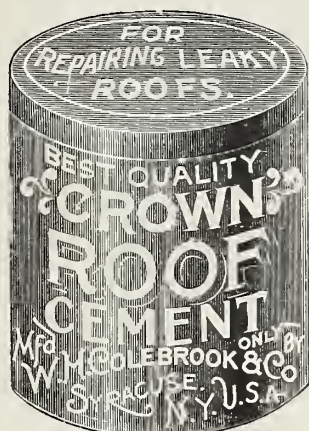


FIG. H-1936

For bedding slate, pointing up and preventing leaks in metallic roofs, around chimneys, copings, skylights, gutters, dormer windows, cupolas, slate, stone, brick or wood.

Very adhesive, sticks to anything.  
Will not crack in summer or winter.  
Easily applied with a knife or a trowel.  
More reliable than solder, and largely used.  
Give it a trial.

5 to 15 pound Cans, per pound..... .10

DIRECTIONS.—Surfaces to be mended should be clean and perfectly dry. Apply with a trowel or a knife, smoothing the top and edges, and leaving a good body.

## BLACKENE



FIG. H-1938

5 and 10 pound Cans, per pound, net..... .10

## ASBESTOS FURNACE CEMENT

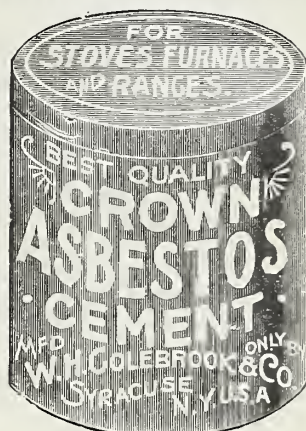


FIG. H-1937

The strongest and most durable cement in use for "setting up" and repairing broken joints in furnaces, ranges, heaters, stoves, etc. It is invaluable for lining furnace doors of steam boilers or as a protection for any work exposed to direct heat, flames, etc.

5 to 15 pound Cans, per pound..... .10

## GLOBE VENTILATOR

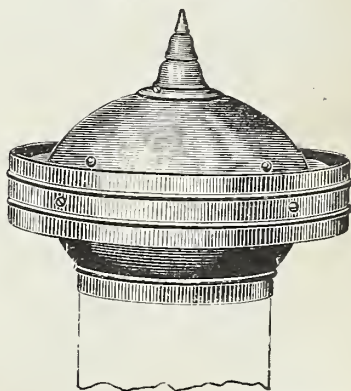


FIG. H-1939—GALVANIZED IRON

Size, in..	2	2½	2¾	3	3½	4	4½
Each .....	\$1.00	1.00	1.00	1.50	1.50	1.75	2.00
Size, in..	5	5½	6	7	8	10	12
Each .....	\$2.50	2.85	3.40	4.00	4.65	5.75	6.75
Size, inches	14	16	18	20	24		
Each .....	\$13.00	20.00	27.00	33.00	40.00		
Size, inches	30	36	40	48	72		
Each .....	\$65.00	120.00	180.00	240.00	480.00		

If square or oblong base is required, it is charged extra.



## GALVANIZED ASH CANS

WITHOUT STRIPS

WITH EIGHT WOOD STRIPS



FIG. H-1940

Nos	3	4	5
Inches	15x26	17x26	18x26
Per dozen	\$20.70	26.60	26.65

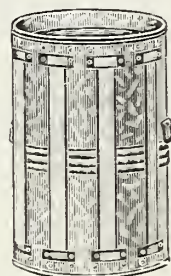


FIG. H-1941

Nos	7	8	9	10
Inches	15x26	17x26	18x26	20x26
Per dozen	\$25.00	28.05	31.10	35.35

## OIL WASTE CAN

FIG. H-1942

GALVANIZED OIL WASTE CANS  
SELF-CLOSING COVER

WITH IMPROVED SPRING ATTACHMENT

These Oil Waste Cans are made without the use of solder, and are galvanized after being put together. They are recommended by the Leading Insurance Companies.

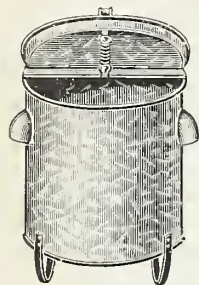


FIG. H-1942

Number	1	2	3	4
Sizes, inches	11 $\frac{1}{4}$ x 15	12 x 18	13 x 20	14 x 22
Per dozen	\$12.50	18.70	24.90	30.80
Number	5	6	7	8
Sizes, inches	16 x 24	18 x 26	20 x 30	24 x 36
Per dozen	\$37.40	55.90	74.25	97.50

## Garbage Pail

## Chamber Pail

## Galvanized Fire Buckets

FLAT BOTTOM

ROUND BOTTOM



FIG. H-1943

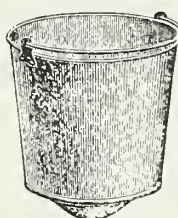


FIG. H-1944

FIG. H-1943—FLAT BOTTOM

Size, quarts	10	12	14
Per dozen	\$2.25	2.50	3.00

FIG. H-1944—ROUND BOTTOM

Size, quarts	10	12	14
Per dozen	\$3.00	3.25	3.50



FIG. H-1945

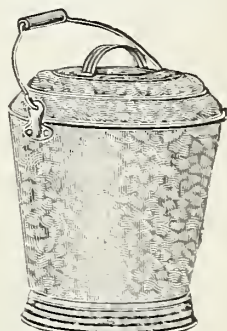


FIG. H-1946

FIG. H-1945

Nos	02	03	04
Per dozen	\$8.85	10.35	11.90

FIG. H-1946

Nos	2 $\frac{1}{2}$	3 $\frac{1}{2}$
Per dozen	\$4.00	4.40



## REGISTERS AND VENTILATORS

REGISTERS, FACES, BORDERS FOR EITHER FLOOR OR WALL

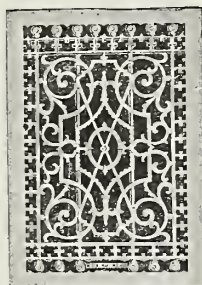


FIG. H-1947



FIG. H-1948

## REVISED LIST OF 1906

Size of Opening.	Black Register.	Black Register Face.	Black Floor Border.	White Reg. Face.	ELECTRO-PLATED NICKEL.			
					Size.	Reg. Ver. Wheel.	Reg. Face.	Floor Border.
4 x 8	\$1.50	.60	\$1.15	.90	4 x 8	\$2.20	\$1.30	\$1.85
4 x 10	1.55	.75	1.15	1.10	4 x 10	2.40	1.60	2.00
6 x 8	1.55	1.00	1.15	1.30	6 x 8	2.80	2.25	2.40
6 x 10	1.60	1.05	1.20	1.40	6 x 10	3.00	2.45	2.60
6 x 12	1.85	1.25	1.45	1.60	7 x 10	3.10	2.55	2.70
7 x 10	1.65	1.10	1.25	1.40	8 x 8	3.00	2.45	2.60
8 x 8	1.60	1.05	1.20	1.40	8 x 10	3.15	2.60	2.75
8 x 10	1.65	1.10	1.25	1.45	8 x 12	3.65	3.05	3.25
8 x 12	1.90	1.30	1.50	1.70	8 x 14	5.10	3.95	3.95
8 x 14	3.00	2.00	2.00	2.60	9 x 12	4.00	3.35	3.55
9 x 12	2.10	1.45	1.65	1.90	9 x 14	5.20	4.25	4.25
9 x 14	3.10	2.15	2.15	2.75	10 x 10	4.35	3.65	3.70
10 x 10	2.35	1.65	1.70	2.15	10 x 12	4.40	3.70	3.75
10 x 12	2.40	1.70	1.75	2.20	10 x 14	5.25	4.30	4.30
10 x 14	3.15	2.20	2.20	2.85	10 x 16	7.20	5.30	5.30
10 x 16	4.85	2.95	2.95	3.95	12 x 12	6.35	5.05	5.05
12 x 12	4.00	2.70	2.70	3.50	12 x 14	6.85	5.35	5.35
12 x 14	4.35	2.80	2.80	3.65	12 x 15	7.00	5.40	5.40
12 x 15	4.50	2.90	2.90	3.80	12 x 16	8.25	6.15	6.15
12 x 16	5.60	3.50	3.50	4.60	12 x 17	9.00	6.45	6.45
12 x 17	6.35	3.80	3.80	5.05	12 x 18	9.35	6.65	6.65
12 x 18	6.80	3.90	3.90	5.25	12 x 19	10.35	6.85	6.85
12 x 19	7.50	4.00	4.00	5.50	12 x 20	12.20	7.60	7.60
12 x 20	9.00	4.50	4.50	6.30	14 x 14	11.00	7.15	7.15
14 x 14	7.90	4.05	4.05	5.60	14 x 16	11.50	7.30	7.30
14 x 16	8.50	4.30	4.30	6.00	14 x 18	12.00	7.50	7.50
14 x 18	9.00	4.50	4.50	6.30	14 x 20	13.00	8.50	8.50
14 x 20	9.50	4.80	4.80	6.40	14 x 22	14.50	9.00	9.00
14 x 22	10.50	5.00	5.00	6.50	16 x 20	16.55	10.30	10.30
16 x 20	12.35	6.10	6.10	7.35	16 x 22	19.50	11.50	11.50
16 x 22	14.75	6.70	6.70	8.15	16 x 24	20.00	12.00	12.00
18 x 18	18.50	7.20	7.20	8.50	18 x 18	23.75	12.45	12.45
18 x 20	21.50	8.35	8.35	10.50	18 x 24	27.75	14.60	14.60
18 x 24	19.75	8.00	8.00	10.00	20 x 20	24.75	13.00	13.00
20 x 24	22.00	8.60	8.60	10.80	20 x 24	28.20	14.80	14.80
20 x 26	23.50	9.50	9.50	11.85	20 x 26	32.00	17.50	17.50
21 x 29	29.00	11.60	11.60	14.50	20 x 30	43.00	23.50	23.50
24 x 24	30.00	12.00	12.00	15.00	21 x 29	40.50	22.20	22.20
24 x 32	42.50	18.00	18.00	22.25	24 x 24	40.00	22.00	22.00
27 x 27	37.25	17.00	17.00	20.70	24 x 32	55.50	31.00	30.00
27 x 38	56.00	25.00	25.00	30.60	27 x 27	49.25	29.00	28.00
30 x 30	49.00	21.50	21.50	26.40	27 x 38	76.00	45.00	36.00
30 x 36	67.50	28.50	28.50	35.25	30 x 30	65.00	37.00	34.00
					30 x 36	90.00	51.00	41.00

Ventilators for Cords 50 cents list extra on all sizes square and round up to 14 x 14, and \$1.00 list extra on all sizes above.

EXTRA HEAVY FACES furnished at 50 per cent. advance upon the ordinary Faces.

We carry the largest and most complete stock of these goods to be found in Central New York and can at all times fill orders promptly and at the lowest Manufacturers' Prices.

## STOVE BOARDS

## EMBOSSED

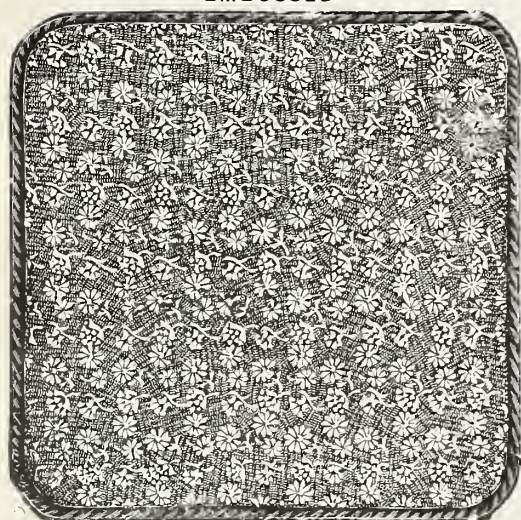


FIG. H-1949

FIG. H-1949

PAPER LINED EMBOSSED  
SQUARE

Size, inches.....	24	26	28	30
Each.....	.45	.50	.56	.63
Size, inches.....	32	34	36	
Each.....	.72	.81	.90	

## OBLONG

Size, inches.....	24x36	26x30	28x32
Each.....	.65	.65	.70
Size, inches.....	30x36	32x42	
Each.....	.80	1.00	

WOOD LINED EMBOSSED  
SQUARE

Size, inches..	26	28	30	33	36
Each.....	.80	.90	1.00	1.30	1.50

## OBLONG

Size, inches.....	24x36	26x32	28x34
Each.....	.90	.90	1.00
Size, inches.....	30x38	32x42	
Each.....	1.35	1.60	

FIG. H-1950

PAPER LINED CRYSTALIZED  
SQUARE

Size, inches.....	24	26	28	30
Each.....	.50	.56	.63	.72
Size, inches.....	32	34	36	
Each.....	.82	.95	1.10	

## OBLONG

Size, inches.....	24x36	26x30	28x32
Each.....	.70	.70	.80
Size, inches.....	30x36	32x42	
Each.....	.95	1.15	

WOOD LINED CRYSTALIZED  
SQUARE

Size, inches..	26	28	30	33	36
Each.....	.85	.95	1.05	1.30	1.50

## OBLONG

Size, inches.....	24x36	26x32	28x34
Each.....	.95	.95	1.05
Size, inches.....	30x38	32x42	
Each.....	1.35	1.60	

## CRYSTALIZED



FIG. H-1950

## COAL HODS

SPECIAL

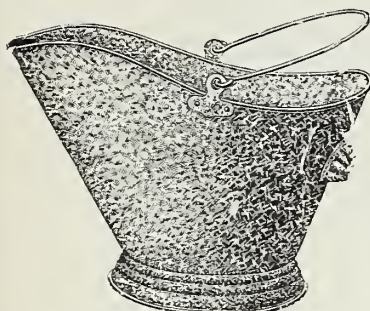


FIG. H-1951

LADIES' FAVORITE

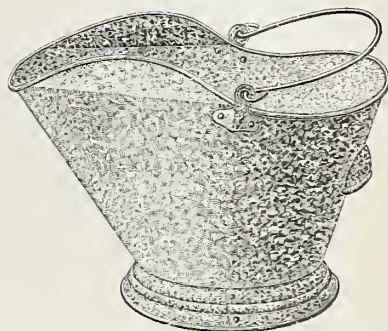


FIG. H-1952

FIG. H-1951—SPECIAL COAL HODS

Size, inches	15	16	17	18
Japanned, per gross	\$26.00	28.00	31.00	35.00
Galvanized, per gross	35.00	39.00	42.00	46.00

FIG. H-1952—LADIES' FAVORITE COAL HODS

Size, inches	15	16	17	18
Japanned, per gross	\$45.00	48.00	53.00	60.00
Galvanized, per gross	55.00	59.00	67.00	76.00

## ASH SIEVE

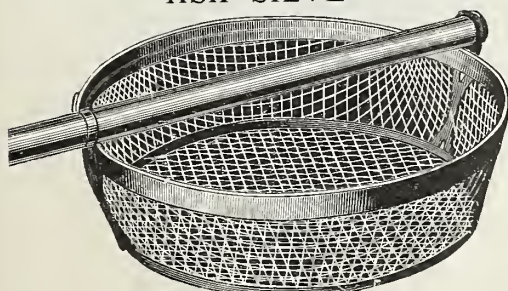


FIG. H-1953

FIG. H-1953—ASH SIEVES

ROUND METALLIC

Per dozen, with Handles... \$3.00

FIG. H-1954—COAL SIEVES

WOOD RIM

Plain Wire, large, per dozen	\$2.50
Galvanized Wire, large, per dozen	2.75
Handles, per dozen	.50

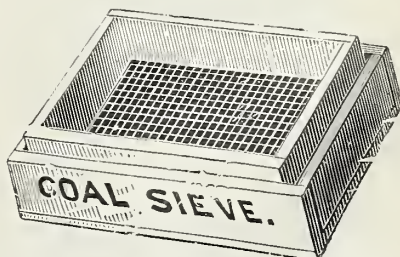


FIG. H-1954



### O. H. CORRUGATED ELBOW MADE OF ONE PIECE

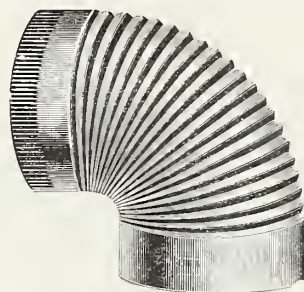


FIG. H-1955

Size, inches	5	5½	6	7	8
Refined Iron, per doz	\$1.75	2.10	2.10	2.85	4.50
Best American Russia Iron, per doz	4.25	5.35	5.35	7.00	---
Galvanized Iron, per doz	4.25	5.35	5.35	7.00	8.00

### UTICA ELBOW

FIRST CLASS, FULL SIZE, SMOOTH, WELL  
MADE

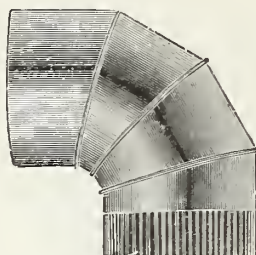


FIG. H-1956

Size, inches	5	5½	6	7
Charcoal Iron, per doz	\$1.30	1.40	1.50	2.00
Best American Russia Iron, per doz	2.00	2.00	2.00	2.50

### PATENT ADJUSTABLE ELBOW

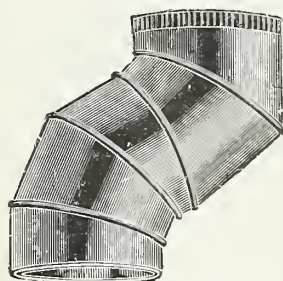


FIG. H-1957

### BEST CHARCOAL IRON

5 inch, per doz	\$1.80
5½ inch and 6 inch, per doz	1.80
7 inch, per doz	2.20

### BEST AMERICAN RUSSIA IRON

5 inch, per doz	\$3.00
5½ and 6 inch, per doz	3.80
7 inch, per doz	4.50

### DIAMOND DAMPER

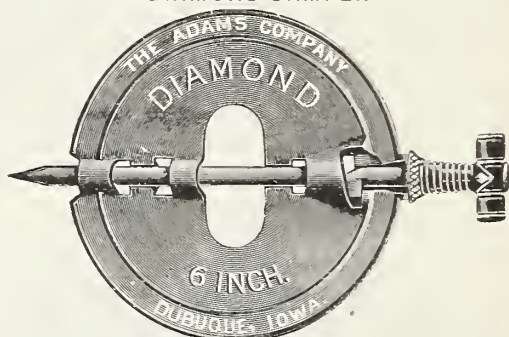


FIG. H-1958

Size, inches	4	4½	5	5½	6	7	8
Per doz	\$1.30	1.35	1.35	1.45	1.50	2.00	3.00

### DIAMOND DAMPER CLIP

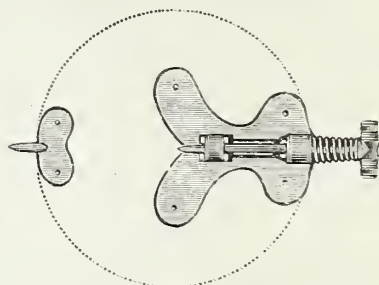
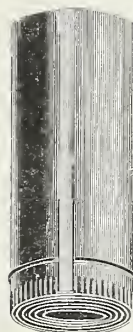
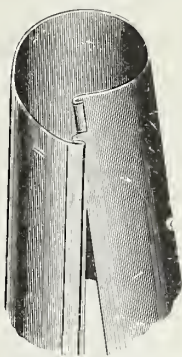
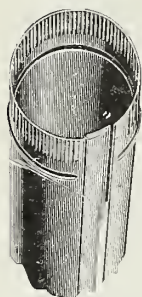


FIG. H-1959

### GALVANIZED IRON AND TIN

Size	Galv. Iron	Tin
1½ inch	.70	.65
2 inch	.70	.65
2½ inch	.85	.75
3 inch	1.00	.75
3½ inch	1.15	1.10
4 inch	1.30	1.10
4½ inch	1.50	1.40
5 inch	1.80	1.40
5½ inch	2.10	1.80
6 inch	2.30	1.80
7 inch	2.80	2.20
8 inch	3.80	2.80
9 inch	4.20	3.40
10 inch	5.70	3.90

Large Size, per doz	\$1.50
Small Size, per doz	1.35

**DOVER PATENT NESTED STOVE PIPE****NO TOOLS****NO MALLETING****READY TO BE PUT TOGETHER WHEN IT LEAVES THE FACTORY****No. 2****No. 3****No. 1****FIG. H-1960**

No. 1 shows the mode of construction of slip joint lock. No. 2 shows the mode of fastening the pipe together. No. 3 shows the way the pipe is packed for shipment.

All rolls are wrapped with paper and labeled, giving size. Twenty-five joints shipped in wooden crate.

Made in five grades: (A) Polished Steel, (C) A uniform blue color, (D) Smooth steel or common, (E) Wood's Refined, (F) Planished Iron.

Guaranteed to be the most practical stove pipe on the market.

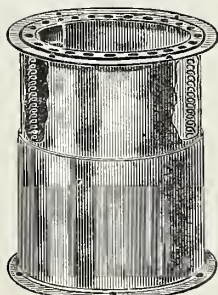
**No. 28 GAUGE, COMMON IRON**

Size, inches	5	6	7
Price per joint	.16	.18	.20

For Wood's Refined add  $\frac{1}{2}$  cent per joint. For Polished add 7 cents per joint. For Planished add 20 cents per joint. Nested 25 joints in a crate.

**COMMON STOVE PIPE**

Cleaned Common Iron, 24 inches, per lb.	.10
Planished Iron, 28 inches long, per lb.	.30

**ADJUSTABLE THIMBLE—FOR PARTITIONS****FIG. H-1961**

5 in., 4 to 8 in. extension, per doz.	\$10.00
5 in., 6 to 12 in. extension, per doz.	11.00
6 in., 4 to 8 in. extension, per doz.	11.00
6 in., 6 to 12 in. extension, per doz.	12.00
7 in., 4 to 8 in. extension, per doz.	13.00
7 in., 6 to 12 in. extension, per doz.	14.00
8 in., 4 to 8 in. extension, per doz.	15.00
8 in., 6 to 12 in. extension, per doz.	16.00

**STOVE PIPE COLLAR****FIG. H-1962**

Lacquered, 5, 5½ and 6 inch, per doz	.60
Lacquered, 7 inch, per doz	.80
Plain, 5, 5½ and 6 inch, per doz	.50
Plain, 7 inch, per doz	.70

**BUTTLE'S PATENT STOVE PIPE CYLINDER RINGS—JAPANNED**

Size, inches	5	6	7
Per dozen	\$2.30	2.50	2.80



ALASKA COVER LIFTERS AND POKERS  
NICKEL-PLATED

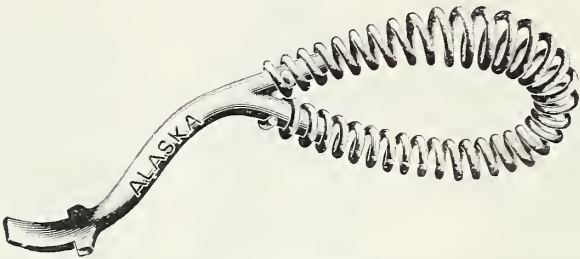


FIG. H-1963

No. 2, per gross	\$10.00
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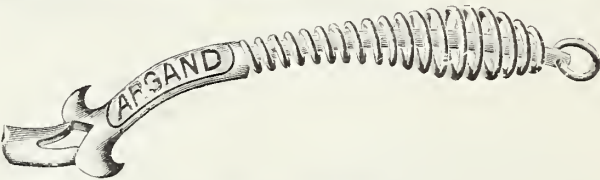


FIG. H-1964

Always Cool, per gross	\$9.00
Cast Lacquered, per gross	4.00



FIG. H-1965

No. 4, Straight, per gross	\$11.00
No. 1, Bent, per gross	11.00
Wood Handles, Tinned, 18 inch, per gross	11.00
Wood Handles, Tinned, 20 inch, per gross	11.50

STOVE SHOVEL



FIG. H-1966

No. 2, Short Japanned, per dozen	.80
No. 5, Short Japanned, per dozen	1.10
No. 3, Long Japanned, per dozen	1.20
No. 7, Long Japanned, per dozen	1.50
No. 20, Short Galvanized, per dozen	1.10
No. 50, Short Galvanized, per dozen	1.50
No. 30, Long Galvanized, per dozen	1.60
No. 70, Long Galvanized, per dozen	2.20
No. 9, Wood Handle, Japanned, per dozen	2.70

## STANDARD PRICE LIST OF SELECTED MICA

SUBJECT TO CHANGE WITHOUT NOTICE

Size.	Price per lb.	Size.	Price per lb.	Size.	Price per lb.	Size.	Price per lb.
$1\frac{1}{2}$ x 3	\$2.30	$2\frac{1}{4}$ x $3\frac{1}{4}$	\$4.30	$2\frac{3}{4}$ x $5\frac{1}{2}$	\$9.75	4 x 5	\$12.85
$1\frac{1}{2}$ x $3\frac{1}{4}$	2.40	$2\frac{1}{4}$ x $3\frac{1}{2}$	4.75	$2\frac{3}{4}$ x 6	10.50	4 x $5\frac{1}{2}$	14.00
$1\frac{1}{2}$ x $3\frac{1}{2}$	2.70	$2\frac{1}{4}$ x $3\frac{3}{4}$	5.25	$2\frac{3}{4}$ x $6\frac{1}{2}$	10.90	4 x 6	14.85
$1\frac{1}{2}$ x $3\frac{3}{4}$	3.05	$2\frac{1}{4}$ x 4	5.35	$2\frac{3}{4}$ x 7	11.75	4 x $6\frac{1}{2}$	15.25
$1\frac{1}{2}$ x 4	3.45	$2\frac{1}{4}$ x $4\frac{1}{4}$	5.85	3 x 3	7.75	4 x 7	15.60
$1\frac{1}{2}$ x $4\frac{1}{4}$	3.60	$2\frac{1}{4}$ x $4\frac{1}{2}$	6.00	3 x $3\frac{1}{4}$	7.75	4 x 8	16.00
$1\frac{1}{2}$ x $4\frac{1}{2}$	3.75	$2\frac{1}{4}$ x $4\frac{3}{4}$	6.50	3 x $3\frac{1}{2}$	8.90	4 x 9	16.40
$1\frac{1}{2}$ x $4\frac{3}{4}$	3.85	$2\frac{1}{4}$ x 5	6.95	3 x $3\frac{3}{4}$	8.90	$4\frac{1}{2}$ x $4\frac{1}{2}$	12.85
$1\frac{1}{2}$ x 5	4.05	$2\frac{1}{4}$ x $5\frac{1}{4}$	7.25	3 x 4	9.30	$4\frac{1}{2}$ x 5	13.65
$1\frac{1}{2}$ x $5\frac{1}{2}$	4.60	$2\frac{1}{4}$ x $5\frac{1}{2}$	7.40	3 x $4\frac{1}{4}$	9.75	$4\frac{1}{2}$ x $5\frac{1}{2}$	14.00
$1\frac{1}{2}$ x 6	6.50	$2\frac{1}{4}$ x 6	8.50	3 x $4\frac{1}{2}$	10.10	$4\frac{1}{2}$ x 6	15.25
$1\frac{3}{4}$ x 3	2.70	$2\frac{1}{4}$ x $6\frac{1}{4}$	8.90	3 x $4\frac{3}{4}$	10.90	$4\frac{1}{2}$ x $6\frac{1}{2}$	15.60
$1\frac{3}{4}$ x $3\frac{1}{4}$	2.90	$2\frac{1}{4}$ x $6\frac{1}{2}$	9.30	3 x 5	11.75	$4\frac{1}{2}$ x 7	16.00
$1\frac{3}{4}$ x $3\frac{1}{2}$	3.35	$2\frac{1}{2}$ x 7	10.50	3 x $5\frac{1}{2}$	12.50	$4\frac{1}{2}$ x 8	16.40
$1\frac{3}{4}$ x $3\frac{3}{4}$	3.50	$2\frac{1}{2}$ x $7\frac{1}{2}$	3.90	3 x 6	13.25	$4\frac{1}{2}$ x 9	16.75
$1\frac{3}{4}$ x 4	3.65	$2\frac{1}{2}$ x $2\frac{3}{4}$	4.15	3 x $6\frac{1}{2}$	13.65	5 x 5	14.00
$1\frac{3}{4}$ x $4\frac{1}{4}$	3.85	$2\frac{1}{2}$ x 3	4.30	3 x 7	14.00	5 x $5\frac{1}{2}$	14.85
$1\frac{3}{4}$ x $4\frac{1}{2}$	4.00	$2\frac{1}{2}$ x $3\frac{1}{4}$	4.50	3 x 8	14.50	5 x 6	15.60
$1\frac{3}{4}$ x $4\frac{3}{4}$	4.45	$2\frac{1}{2}$ x $3\frac{1}{2}$	5.25	3 x 9	14.85	5 x $6\frac{1}{2}$	16.00
2 x 2	2.60	$2\frac{1}{2}$ x $3\frac{3}{4}$	5.35	$3\frac{1}{4}$ x $3\frac{1}{4}$	8.10	5 x 7	16.75
2 x $2\frac{1}{4}$	2.70	$2\frac{1}{2}$ x 4	5.85	$3\frac{1}{4}$ x $3\frac{1}{2}$	8.90	5 x 8	17.25
2 x $2\frac{1}{2}$	2.90	$2\frac{1}{2}$ x $4\frac{1}{4}$	6.25	$3\frac{1}{4}$ x $3\frac{3}{4}$	9.30	5 x 9	18.00
2 x $2\frac{3}{4}$	3.05	$2\frac{1}{2}$ x $4\frac{1}{2}$	6.75	$3\frac{1}{4}$ x 4	9.75	5 x 10	19.50
2 x 3	3.35	$2\frac{1}{2}$ x $4\frac{3}{4}$	7.35	$3\frac{1}{4}$ x $4\frac{1}{4}$	9.85	$5\frac{1}{2}$ x $5\frac{1}{2}$	15.60
2 x $3\frac{1}{4}$	3.45	$2\frac{1}{2}$ x 5	7.75	$3\frac{1}{4}$ x $4\frac{1}{2}$	10.10	$5\frac{1}{2}$ x 6	16.40
2 x $3\frac{1}{2}$	3.65	$2\frac{1}{2}$ x $5\frac{1}{4}$	7.90	$3\frac{1}{4}$ x $4\frac{3}{4}$	11.25	$5\frac{1}{2}$ x 7	17.25
2 x $3\frac{3}{4}$	3.85	$2\frac{1}{2}$ x $5\frac{1}{2}$	8.35	$3\frac{1}{4}$ x 5	12.00	$5\frac{1}{2}$ x 8	18.75
2 x 4	4.30	$2\frac{1}{2}$ x 6	9.10	$3\frac{1}{4}$ x $5\frac{1}{2}$	12.85	$5\frac{1}{2}$ x 9	19.50
2 x $4\frac{1}{4}$	4.60	$2\frac{1}{2}$ x $6\frac{1}{2}$	9.50	$3\frac{1}{4}$ x 6	14.00	6 x 6	17.25
2 x $4\frac{1}{2}$	4.90	$2\frac{1}{2}$ x 7	11.10	$3\frac{1}{2}$ x $3\frac{1}{2}$	9.30	6 x $6\frac{1}{2}$	18.00
2 x $4\frac{3}{4}$	5.00	$2\frac{1}{2}$ x 8	11.50	$3\frac{1}{2}$ x $3\frac{3}{4}$	9.30	6 x 7	19.50
2 x 5	5.25	$2\frac{3}{4}$ x $2\frac{3}{4}$	4.60	$3\frac{1}{2}$ x 4	10.10	6 x 8	21.10
2 x $5\frac{1}{2}$	5.70	$2\frac{3}{4}$ x 3	5.35	$3\frac{1}{2}$ x $4\frac{1}{2}$	11.25	6 x 9	21.90
2 x 6	6.60	$2\frac{3}{4}$ x $3\frac{1}{4}$	5.75	$3\frac{1}{2}$ x 5	12.50	6 x 10	23.50
2 x $6\frac{1}{2}$	7.55	$2\frac{3}{4}$ x $3\frac{1}{2}$	6.30	$3\frac{1}{2}$ x $5\frac{1}{2}$	13.65	7 x 7	23.50
2 x 7	8.80	$2\frac{3}{4}$ x $3\frac{3}{4}$	6.60	$3\frac{1}{2}$ x 6	14.50	7 x 8	24.25
2 x $7\frac{1}{2}$	9.25	$2\frac{3}{4}$ x 4	7.75	$3\frac{1}{2}$ x $6\frac{1}{2}$	14.85	7 x 9	25.00
2 x 8	9.60	$2\frac{3}{4}$ x $4\frac{1}{4}$	7.90	$3\frac{1}{2}$ x 7	15.25	7 x 10	25.90
$2\frac{1}{4}$ x $2\frac{1}{4}$	3.00	$2\frac{3}{4}$ x $4\frac{1}{2}$	8.10	$3\frac{1}{2}$ x 8	15.60	8 x 8	25.90
$2\frac{1}{4}$ x $2\frac{1}{2}$	3.35	$2\frac{3}{4}$ x $4\frac{3}{4}$	8.25	$3\frac{1}{2}$ x 9	16.00	8 x 9	26.75
$2\frac{1}{4}$ x $2\frac{3}{4}$	3.50	$2\frac{3}{4}$ x 5	8.90	4 x 4	11.75	8 x 10	27.50
$2\frac{1}{4}$ x 3	3.85	$2\frac{3}{4}$ x $5\frac{1}{4}$	9.30	4 x $4\frac{1}{2}$	12.00		

## ALL LARGER SPECIAL PRICES

Sizes not printed on List shall be at the price of the next larger size.

## SAFETY HOLLOW WARE



FIG. H-1967

FIG. H-1968

## ROUND AND FLAT BOTTOM KETTLES

No. 7, Kettle, plain, diameter, $8\frac{3}{4}$ in., each	\$1.50
No. 8, Kettle, plain, diameter, $9\frac{3}{4}$ in., each	1.75
No. 9, Kettle, plain, diameter, $10\frac{3}{4}$ in., each	2.00
No. 10, Kettle, plain, diameter, $11\frac{1}{2}$ in., each	2.50

## STEW PANS

No. 7, diameter, $8\frac{3}{4}$ in., depth, $4\frac{1}{2}$ in., each	\$1.40
No. 8, diameter, $9\frac{3}{4}$ in., depth, 5 in., each	1.55
No. 9, diameter, $10\frac{3}{4}$ in., depth, $5\frac{1}{2}$ in., each	1.75

Discount Sheet.

## SPIDERS

No. 7, diameter across bottom, 8 in., each	.65
No. 8, diameter across bottom, 9 in., each	.75
No. 9, diameter across bottom, 10 in., each	.90
No. 10, diameter across bottom, 11 in., each	1.10
No. 12, diameter across bottom, 12 in., each	1.30

## BALED GRIDDLES

No. 12, with bales, cooking surface, $11\frac{1}{2}$ in.	\$1.00
No. 14, with bales, cooking surface, $12\frac{1}{2}$ in.	1.15
No. 16, with bales, cooking surface, $13\frac{1}{2}$ in.	1.30

FIG. H-1967

## ROUND BOTTOM KETTLES

No. 8—Each	Ground
No. 9—Each	\$1.25
	1.40

## FLAT BOTTOM KETTLES

No. 7—Each	\$1.10
No. 8—Each	1.25
No. 9—Each	1.40
No. 10—Each	1.60
No. 20 (holds 5 gallons), each	3.00

## NEVER BREAK HOLLOW WARE



FIG. H-1968

## POT COVER

## RING, HEMMED EDGES



FIG. H-1969

Size, inches.	7	$7\frac{1}{2}$	8	$8\frac{1}{2}$	9	$9\frac{1}{2}$
Per doz.	.50	.50	.60	.60	.70	.70
Size, inches.	10	$10\frac{1}{2}$	11	$11\frac{1}{2}$	12	$12\frac{1}{2}$
Per doz.	.80	.80	1.00	1.00	1.20	1.20
Size, inches.	13	$13\frac{1}{2}$	14	$14\frac{1}{2}$	15	$15\frac{1}{2}$
Per doz.	1.50	1.50	2.00	2.00	2.50	2.50

## ACME FRY PAN



FIG. H-1970

Number	0	1	2	3	4	5	6	7	8
Inches on top	8	$8\frac{1}{2}$	9	$9\frac{1}{2}$	10	$10\frac{1}{2}$	12	13	14
Inches on bottom	6	$6\frac{1}{2}$	7	$7\frac{1}{2}$	8	9	10	$10\frac{1}{2}$	$11\frac{1}{2}$
Per doz.	\$3.00	3.75	4.25	4.75	5.25	6.00	7.00	8.00	9.00

## TEA AND COFFEE POTS

### NICKEL-PLATED

TEA

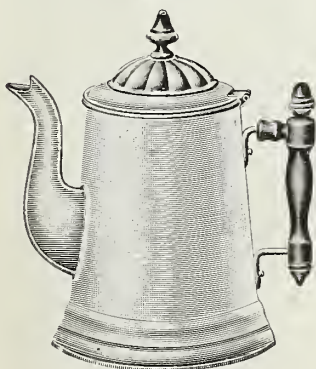


FIG. H-1971

COFFEE

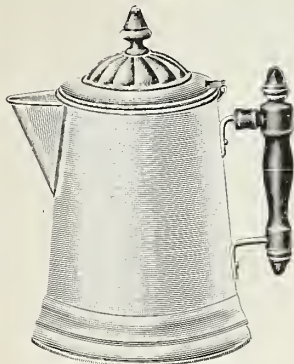


FIG. H-1972

FIGS. H-1971 AND H-1972

Size, 2 pint, per dozen	Size, 3 pint, per dozen
Size, 4 pint, per dozen	Size, 5 pint, per dozen
Size, 6 pint, per dozen	

\$9.00  
10.00  
11.00  
12.00  
13.00

## IX TIN WASH BOILER

COPPER BOTTOM

Size No. 8 or 9, per dozen-- \$25.00

## TEA KETTLE

NICKEL-PLATED COPPER



FIG. H-1973

FLAT OR PIT BOTTOM

Size No. 8, per dozen	\$18.50
Size No. 9, per dozen	20.00

## WASH BOILER

POLISHED COPPER

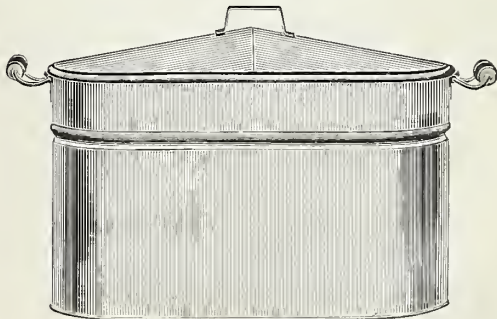


FIG. H-1974

Size No. 8, per dozen, 14 oz	\$30.00
Size No. 9, per dozen, 14 oz	40.00



## REGULAR PATTERN



FIG. H-1975

FACTORY  
MILK CANS

These Cans are made up with half-round Top and Center Hoop, and Three-pronged Tinned Side Handles as per illustration.

Stock and Cans also furnished with either Flat or Corrugated Center Hoop, and with any style Handle at same price. Fifteen Gallon Size is regular without Center Hoop.

The Regular Pattern Can has a "Follower" Cover. The Empire Pattern Can has a Stationary Cover.

## EMPIRE PATTERN



FIG. H-1976

## FIG. H-1975—REGULAR PATTERN

Capacity, Gallons.....	15	20	30	40	50
Price, per Set, Stock.....	\$5.90	6.60	8.20	9.60	11.30
Factory Cans, No.....	8215	8220	8230	8240	8250
Each.....	\$8.30	9.25	10.85	12.60	14.30

## FIG. H-1976—EMPIRE PATTERN

Capacity, Gallons.....	15	20	30	40	50
Height, inches.....	31	31	31	31	32½
Diameter, inches.....	14½	15½	18¾	20¾	23¾
Average weight, pounds.....	25	29	33	40	45
Price, per Set, Stock.....	\$6.50	7.20	8.80	10.20	11.9
Factory Cans, No.....	7415	7420	7430	7440	7450
Each.....	\$8.90	9.85	11.45	13.20	14.90

## RAIL ROAD MILK CAN



FIG. H-1977

## FIG. H-1977

RAIL ROAD MILK  
CANS—NEW YORK  
PATTERN

Quarts.....	20	30
Cans, each.....	\$4.10	4.50
Quarts.....	40	
Cans, each.....	4.75	

Hoops Electric Welded. Handle Ears No. 10 Gauge Hand Forged Steel.

TINNED DAIRY PAIL  
EXTRA HEAVY SEAMLESS

FIG. H-1978

Quarts.....	10	12	14
Per dozen.....	\$6.50	7.00	7.50



## IDEAL SAP SPOUTS

OPEN TOP

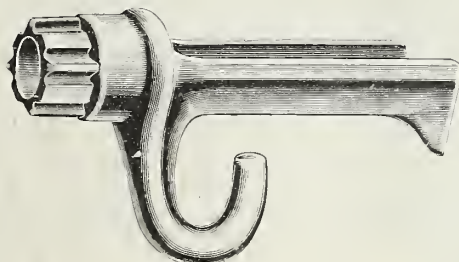


FIG. H-1979

CLOSED TOP

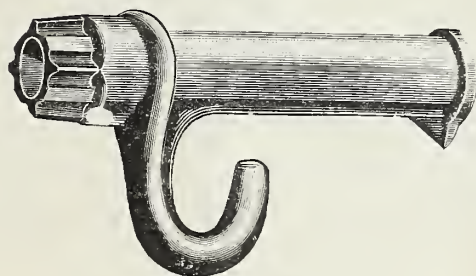


FIG. H-1980

FIGS. H-1979 AND H-1980

Made from the best Malleable Iron and beautifully tinned.

Packed in pasteboard boxes containing 250 spouts in all of either kind.

Each kind is made to fit a hole bored with a half inch bit.

Dealers will find it most decidedly to their advantage to confine their sales exclusively to these desirable spouts.

Send in your orders early so that you may have the goods when they are needed.

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No. 1—Tinned Open Top, per 100 .....	\$3.00
No. 1—Tinned Closed Top, per 100 .....	3.50

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SYRUP CAN

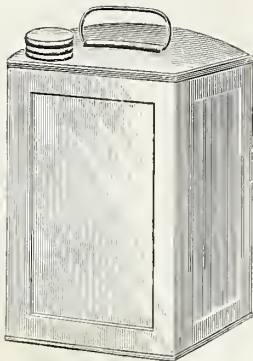


FIG. H-1981

SAP BUCKET



FIG. H-1982

FIG. H-1981—SYRUP CAN

Full gallon square, paneled or plain, with handles, 1¾ screw top, per 100.....	\$10.00
One-half gallon square, paneled or plain, with handles, 1¾ screw top, per 100.....	9.00
One-fourth gallon square, paneled or plain, with handles, 1¾ screw top, per 100.....	8.00
Full gallon round, with handles, 1¾ screw top, per 100.....	10.00

FIG. H-1982—SAP BUCKETS

Size	IC	IX	Galv. Apollo
12 quart, per 100.....	\$20.00	25.00	30.00
15 quart, per 100.....	25.00	30.00	35.00

TODD'S PATENT COVER  
FOR SAP BUCKETS

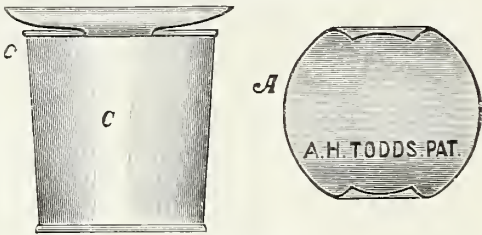


FIG. H-1983

This is a cover for a sap bucket, having wings to shed rain, as frequently the best sap runs are during rain or snow storms.

Made from one piece of tin, and there are no wires to come off and will fit any size of bucket.

Todd's Patent Sap Bucket Cover, each.....	.10
In Crates of 150, per crate .....	\$10.00













D00520733K

1750  
60

8755  
10500

10. 10.25  
60

5125  
6150

9.  
300  
300  
1.25  
1.25

